5/17/05

Characteristic and Listed Hazardous Waste

40 CFR 261 Subpart C-Characteristics of Hazardous Waste

Sec. 261.20 General.

(a) A solid waste, as defined in Sec. 261.2, which is not excluded from regulation as a hazardous waste under Sec. 261.4(b), is a hazardous waste if it exhibits any of the characteristics identified in this subpart.

[Comment: Sec. 262.11 of this chapter sets forth the generator's responsibility to determine whether his waste exhibits one or more of the characteristics identified in this subpart]

- (b) A hazardous waste which is identified by a characteristic in this subpart is assigned every EPA Hazardous Waste Number that is applicable as set forth in this subpart. This number must be used in complying with the notification requirements of section 3010 of the Act and all applicable recordkeeping and reporting requirements under parts 262 through 265, 268, and 270 of this chapter.
- (c) For purposes of this subpart, the Administrator will consider a sample obtained using any of the applicable sampling methods specified in appendix I to be a representative sample within the meaning of part 260 of this chapter.

[Comment: Since the appendix I sampling methods are not being formally adopted by the Administrator, a person who desires to employ an alternative sampling method is not required to demonstrate the equivalency of his method under the procedures set forth in Sec. Sec. 260.20 and 260.21.]

Sec. 261.21 Characteristic of ignitability.

- (a) A solid waste exhibits the characteristic of ignitability if a representative sample of the waste has any of the following properties:
- (1) It is a liquid, other than an aqueous solution containing less than 24 percent alcohol by volume and has flash point less than 60 [deg]C (140 [deg]F), as determined by a Pensky-Martens Closed Cup Tester, using the test method specified in ASTM Standard D-93-79 or D-93-80 (incorporated by reference, see Sec. 260.11), or a Setaflash Closed Cup Tester, using the test method specified in ASTM Standard D-3278-78 (incorporated by reference, see Sec.260.11), or as determined by an equivalent test method approved by the Administrator under procedures set forth in Sec. Sec. 260.20 and 260.21.
- (2) It is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard.
- (3) It is an ignitable compressed gas as defined in 49 CFR 173.300 and as determined by the test methods described in that regulation or equivalent test methods approved by the Administrator under Sec. Sec. 260.20 and 260.21.
 - (4) It is an oxidizer as defined in 49 CFR 173.151.
 - (b) A solid waste that exhibits the characteristic of ignitability

Sec. 261.22 Characteristic of corrosivity.

- (a) A solid waste exhibits the characteristic of corrosivity if a representative sample of the waste has either of the following properties:
- (1) It is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5, as determined by a pH meter using Method 9040 in `Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,'' EPA Publication SW-846, as incorporated by reference in Sec. 260.11 of this chapter.
- (2) It is a liquid and corrodes steel (SAE 1020) at a rate greater than 6.35 mm (0.250 inch) per year at a test temperature of 55 [deg]C (130 [deg]F) as determined by the test method specified in NACE (National Association of Corrosion Engineers) Standard TM-01-69 as standardized in `Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,'' EPA Publication SW-846, as incorporated by reference in Sec. 260.11 of this chapter.
- (b) A solid waste that exhibits the characteristic of corrosivity has the EPA Hazardous Waste Number of D002.

Sec. 261.23 Characteristic of reactivity.

- (a) A solid waste exhibits the characteristic of reactivity if a representative sample of the waste has any of the following properties:
- (1) It is normally unstable and readily undergoes violent change without detonating.
 - (2) It reacts violently with water.
 - (3) It forms potentially explosive mixtures with water.
- (4) When mixed with water, it generates toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.
- (5) It is a cyanide or sulfide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.
- (6) It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.
- (7) It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.
- (8) It is a forbidden explosive as defined in 49 CFR 173.51, or a Class A explosive as defined in 49 CFR 173.53 or a Class B explosive as defined in 49 CFR 173.88.
- (b) A solid waste that exhibits the characteristic of reactivity has the EPA Hazardous Waste Number of D003.

Sec. 261.24 Toxicity characteristic.

(a) A solid waste (except manufactured gas plant waste) exhibits the characteristic of toxicity if, using the Toxicity Characteristic Leaching Procedure, test Method 1311 in `Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,'' EPA Publication SW-846, as incorporated by reference in Sec. 260.11 of this chapter, the extract from a representative sample of the waste contains any of the contaminants listed in table 1 at the concentration equal to or greater than the respective value given in that table. Where the waste contains

less than 0.5 percent filterable solids, the waste itself, after filtering using the methodology outlined in Method 1311, is considered to be the extract for the purpose of this section.

(b) A solid waste that exhibits the characteristic of toxicity has the EPA Hazardous Waste Number specified in Table I which corresponds to the toxic contaminant causing it to be hazardous.

Table 1--Maximum Concentration of Contaminants for the Toxicity Characteristic

| EPA HW No.\1\ | Contaminant | No.\2\ | Regulatory Level(mg/l) |
|---------------|--|---------------|---------------------------|
| D004 | Arsenic | 7440-38-2 | |
| D005 | Barium | 7440-39-3 | 100.0 |
| D018 | Benzene | 71-43-2 | 0.5 |
| D006 | Cadmium | 7440-43-9 | 1.0 |
| D019 | Carbon tetrachloride | 56-23-5 | 0.5 |
| D020 | Chlordane | 57-74-9 | 0.03 |
| D021 | Chlorobenzene | 108-90-7 | 100.0 |
| D022 | Chloroform | 67-66-3 | 6.0 |
| D007 | Chromium | 7440-47-3 | 5.0 |
| D023 | o-Cresol | 95-48-7 | \4\ 200.0 |
| D024 | m-Cresol | 108-39-4 | , , |
| D025 | p-Cresol | 106-44-5 | \4\ 200.0 |
| D026 | Cresol | | \4\ 200.0 |
| D016 | 2,4-D | 94-75-7 | 10.0 |
| D027 | 1,4-Dichlorobenzene | 106-46-7 | 7.5 |
| D028 | 1,2-Dichloroethane | 107-06-2 | 0.5 |
| D029 | 1,1-Dichloroethylene | 75-35-4 | 0.7 |
| D030 | 2,4-Dinitrotoluene | 121-14-2 | \3\ 0.13 |
| D012 | Endrin | 72-20-8 | 0.02 |
| D031 | <pre>Heptachlor (and its epoxide).</pre> | 76-44-8 | 0.008 |
| D032 | Hexachlorobenzene | 118-74-1 | \3\ 0.13 |
| D033 | Hexachlorobutadiene | 87-68-3 | 0.5 |
| D034 | Hexachloroethane | 67-72-1 | 3.0 |
| D008 | Lead | 7439-92-1 | 5.0 |
| D013 | Lindane | 58-89-9 | 0.4 |
| D009 | Mercury | 7439-97-6 | 0.2 |
| D014 | Methoxychlor | 72-43-5 | 10.0 |
| D035 | Methyl ethyl ketone | 78-93-3 | 200.0 |
| D036 | Nitrobenzene | 98-95-3 | 2.0 |
| D037 | Pentrachlorophenol | 87-86-5 | 100.0 |
| D038 | Pyridine | 110-86-1 | \3\ 5.0 |
| D010 | Selenium | 7782-49-2 | 1.0 |
| D011 | Silver | 7440-22-4 | 5.0 |
| D039 | Tetrachloroethyl ene | 127-18-4 | 0.7 |
| D015 | Toxaphene | 8001-35-2 | 0.5 |
| D040 | Trichloroethyl ene | 79-01-6 | 0.5 |
| D041 | 2,4,5-Trichlorophenol. | 95-95-4 | 400.0 |
| D042 | 2,4,6-Trichlorophenol. | 88-06-2 | 2.0 |
| D017 | 2,4,5-TP (Silvex) | 93-72-1 | 1.0 |
| D043 | Vinyl chloride | 75-01-4 | 0.2 |

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- \1\ Hazardous waste number.
- \2\ Chemical abstracts service number.
- \3\ Quantitation limit is greater than the calculated regulatory level.

 The quantitation limit therefore becomes the regulatory level.

 \4\ If o-, m-, and p-Cresol concentrations cannot be differentiated,
- $\4\$ If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

Subpart D-Lists of Hazardous Wastes

Sec. 261.30 General.

- (a) A solid waste is a hazardous waste if it is listed in this subpart, unless it has been excluded from this list under Sec. Sec. 260.20 and 260.22.
- (b) The Administrator will indicate his basis for listing the classes or types of wastes listed in this subpart by employing one or more of the following Hazard Codes:

| Ignitable Waste | (I) |
|-------------------------------|-----|
| Corrosive Waste | (C) |
| Reactive Waste | (R) |
| Toxicity Characteristic Waste | (E) |
| Acute Hazardous Waste | (H) |
| Toxic Waste | (T) |

Appendix VII identifies the constituent which caused the Administrator to list the waste as a Toxicity Characteristic Waste (E) or Toxic Waste (T) in Sec. Sec. 261.31 and 261.32.

- (c) Each hazardous waste listed in this subpart is assigned an EPA Hazardous Waste Number which precedes the name of the waste. This number must be used in complying with the notification requirements of Section 3010 of the Act and certain recordkeeping and reporting requirements under parts 262 through 265, 268, and part 270 of this chapter.
- (d) The following hazardous wastes listed in Sec. 261.31 or Sec. 261.32 are subject to the exclusion limits for acutely hazardous wastes established in Sec. 261.5: EPA Hazardous Wastes Nos. FO20, FO21, FO22, FO23, FO26, and FO27.

> Sec. 261.31 Hazardous wastes from non-specific sources.

(a) The following solid wastes are listed hazardous wastes from non-specific sources unless they are excluded under Sec. Sec. 260.20 and 260.22 and listed in appendix IX.

Industry and EPA Waste No. Hazardous Waste Hazard code

| F001 | The following spent halogenated solvents used in | (T) |
|------|---|-----|
| | degreasing: Tetrachloroethylene, trichloroethylene, | |
| | methylene chloride, 1,1,1-trichloroethane, carbon | |
| | tetrachloride, and chlorinated fluorocarbons; all | |
| | spent solvent mixtures/blends used in degreasing | |
| | containing, before use, a total of ten percent or | |

| | | 1 |
|-------|--|-----------|
| | more (by volume) of one or more of the above | |
| | halogenated solvents or those solvents listed in | |
| | F002, F004, and F005; and still bottoms from the | |
| | recovery of these spent solvents and spent solvent mixtures. | |
| F002 | | / TT \ |
| F002 | The following spent halogenated solvents: | (T) |
| | Tetrachloroethylene, methylene chloride, | |
| | trichloroethylene, 1,1,1- trichloroethane, | |
| | chlorobenzene, 1,1,2- trichloro-1,2,2- trifluoroethane, ortho- dichlorobenzene, | |
| | | |
| | trichlorofluoromethane, and 1,1,2- trichloroethane; all spent solvent mixtures/ blends containing, | |
| | before use, a total of ten percent or more (by | |
| | volume) of one or more of the above halogenated | |
| | solvents or those listed in F001, F004, or F005; and | |
| | still bottoms from the recovery of these spent | |
| | | |
| E003 | solvents and spent solvent mixtures. | / T \ |
| F003 | The following spent non- halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl | (I) |
| | | |
| | ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent | |
| | mixtures/blends containing, before use, only the | |
| | above spent non- halogenated solvents; and all spent | |
| | solvent mixtures/blends containing, before use, one | |
| | or more of the above non-halogenated solvents, and, | |
| | a total of ten percent or more (by volume) of one or | |
| | more of those solvents listed in F001, F002, F004, | |
| | and F005; and still bottoms from the recovery of | |
| | these spent solvents and spent solvent mixtures. | |
| *F004 | The following spent non- halogenated solvents: | (T) |
| 1004 | Cresols and cresylic acid, and nitrobenzene; all | (1) |
| | spent solvent mixtures/blends containing, before | |
| | use, a total of ten percent or more (by volume) of | |
| | one or more of the above non-halogenated solvents or | |
| | those solvents listed in F001, F002, and F005; and | |
| | still bottoms from the recovery of these spent | |
| | solvents and spent solvent mixtures. | |
| F005 | The following spent non- halogenated solvents: | (I,T) |
| | Toluene, methyl ethyl ketone, carbon disulfide, | (- , - , |
| | isobutanol, pyridine, benzene, 2- ethoxyethanol, and | |
| | 2- nitropropane; all spent solvent mixtures/blends | |
| | containing, before use, a total of ten percent or | |
| | more (by volume) of one or more of the above non- | |
| | halogenated solvents or those solvents listed in | |
| | F001, F002, or F004; and still bottoms from the | |
| | recovery of these spent solvents and spent solvent | |
| | mixtures. | |
| F006 | Wastewater treatment sludges from electroplating | (T) |
| | operations except from the following processes: (1) | |
| | Sulfuric acid anodizing of aluminum; (2) tin plating | |
| | on carbon steel; (3) zinc plating (segregated basis) | |
| | on carbon steel; (4) aluminum or zinc- aluminum | |
| | plating on carbon steel; (5) cleaning/stripping | |
| | associated with tin, zinc and aluminum plating on | |
| | carbon steel; and (6) chemical etching and milling | |
| | of aluminum. | |
| | | |

| F007 | Spent cyanide plating bath solutions from electroplating operations. | (R,T) |
|------|--|-------|
| F008 | Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process. | (R,T) |
| F009 | Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process. | (R,T) |
| F010 | Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process. | (R,T) |
| F011 | Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations. | (R,T) |
| F012 | Quenching waste water treatment sludges from metal heat treating operations where cyanides are used in the process. | (T) |
| F019 | Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process. | (T) |
| F020 | Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol.). | (H) |
| F021 | Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce its derivatives. | (H) |
| F022 | Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions. | (H) |
| F023 | Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of Hexachlorophene from highly purified 2,4,5- trichlorophenol.). | (H) |
| F024 | Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic | (T) |

| | hydrocarbons are those having carbon chain lengths | |
|------|--|-------|
| | ranging from one to and including five, with varying | |
| | amounts and positions of chlorine substitution. | |
| | (This listing does not include wastewaters, | |
| | wastewater treatment sludges, spent catalysts, and | |
| | wastes listed in Sec. 261.31 or Sec. 261.32.). | |
| F025 | Condensed light ends, spent filters and filter | (T) |
| 1023 | aids, and spent desiccant wastes from the production | (±) |
| | of certain chlorinated aliphatic hydrocarbons, by | |
| | free radical catalyzed processes. These chlorinated | |
| | aliphatic hydrocarbons are those having carbon chain | |
| | lengths ranging from one to and including five, with | |
| | varying amounts and positions of chlorine | |
| | substitution. | |
| F026 | Wastes (except wastewater and spent carbon from | (H) |
| 1020 | hydrogen chloride purification) from the production | (11) |
| | of materials on equipment previously used for the | |
| | manufacturing use (as a reactant, chemical | |
| | intermediate, or component in a formulating process) | |
| | of tetra-, penta-, or hexachlorobenzene under | |
| | alkaline conditions. | |
| F027 | Discarded unused formulations containing tri-, | (H) |
| | tetra-, or pentachlorophenol or discarded unused | . , |
| | formulations containing compounds derived from these | |
| | chlorophenols. (This listing does not include | |
| | formulations containing Hexachlorophene sythesized | |
| | from prepurified 2,4,5- trichlorophenol as the sole | |
| | component.). | |
| F028 | Residues resulting from the incineration or | (T) |
| | thermal treatment of soil contaminated with EPA | |
| | Hazardous Waste Nos. F020, F021, F022, F023, F026, | |
| | and F027. | |
| F032 | Wastewaters (except those that have not come into | (T) |
| | contact with process contaminants), process | |
| | residuals, preservative drippage, and spent | |
| | formulations from wood preserving processes | |
| | generated at plants that currently use or have | |
| | previously used chlorophenolic formulations (except | |
| | potentially cross- contaminated wastes that have had | |
| | the F032 waste code deleted in accordance with Sec. | |
| | 261.35 of this chapter or potentially cross- | |
| | contaminated wastes that are otherwise currently | |
| | regulated as hazardous wastes (i.e., F034 or F035), | |
| | and where the generator does not resume or initiate | |
| | use of chlorophenolic formulations). This listing | |
| | does not include K001 bottom sediment sludge from | |
| | the treatment of wastewater from wood preserving | |
| | processes that use creosote and/or | |
| | pentachlorophenol. | 4 |
| F034 | Wastewaters (except those that have not come into | (T) |
| | contact with process contaminants), process | |
| | residuals, preservative drippage, and spent | |
| | formulations from wood preserving processes | |
| | generated at plants that use creosote formulations. | |
| I | This listing does not include K001 bottom sediment | |
| | sludge from the treatment of wastewater from wood | |

| | preserving processes that use creosote and/or | |
|------|--|-----|
| | pentachlorophenol. | |
| F035 | Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol. | (T) |
| F037 | Petroleum refinery primary oil/water/solids separation sludgeAny sludge generated from the gravitational separation of oil/water/ solids during the storage or treatment of process wastewaters and oil cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in oil/water/ solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non- contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in Sec. 261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials excluded under Sec. 261.4(a)(12)(i), if those residuals are to be | (T) |
| F038 | Petroleum refinery secondary (emulsified) oil/water/solids separation sludgeAny sludge and/or float generated from the physical and/or chemical separation of oil/water/ solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non- contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in Sec. 261.31(b)(2) (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing. | (T) |

| F039 | Leachate (liquids that have percolated through | (T) |
|------|--|-----|
| | land disposed wastes) resulting from the disposal of | |
| | more than one restricted waste classified as | |
| | hazardous under subpart D of this part. (Leachate | |
| | resulting from the disposal of one or more of the | |
| | following EPA Hazardous Wastes and no other | |
| | Hazardous Wastes retains its EPA Hazardous Waste | |
| | Number(s): F020, F021, F022, F026, F027, and/or | |
| | F028.). | |

(b) Listing Specific Definitions: (1) For the purposes of the F037 and F038 listings, oil/water/solids is defined as oil and/or water and/ or solids.(2) (i) For the purposes of the F037 and F038 listings, aggressive biological treatment units are defined as units which employ one of the following four treatment methods: activated sludge; filter; rotating biological contactor for the continuous trickling biological oxidation of wastewaters; or high-rate accelerated aeration. High-rate aeration is a system of surface impoundments or tanks, in which intense mechanical aeration is used to completely mix the wastes, enhance biological activity, and (A) the units employ a minimum of 6 hp per million gallons of treatment volume; and either (B) the hydraulic retention time of the unit is no longer than 5 days; or (C) the hydraulic retention time is no longer than 30 days and the unit does not generate a sludge that is a hazardous waste by the (ii) Generators and treatment, storage and Toxicity Characteristic. disposal facilities have the burden of proving that their sludges are exempt from listing as F037 and F038 wastes under this definition. Generators and treatment, storage and disposal facilities must maintain, in their operating or other onsite records, documents and data sufficient to prove that: (A) the unit is an aggressive biological treatment unit as defined in this subsection; and (B) the sludges sought to be exempted from the definitions of F037 and/or F038 were actually generated in the aggressive biological treatment unit. (3) (i) For the purposes of the F037 listing, sludges are considered to be generated at the moment of deposition in the unit, where deposition is defined as at least a temporary cessation of lateral particle movement. (ii) For the purposes of the F038 listing, (A) sludges are considered to be generated at the moment of deposition in the unit. where deposition is defined as at least a temporary cessation of lateral particle movement and (B) floats are considered to be generated at the moment they are formed in the top of the unit.

Sec. 261.32 Hazardous wastes from specific sources.

The following solid wastes are listed hazardous wastes from specific sources unless they are excluded under Sec. Sec. 260.20 and 260.22 and listed in appendix IX.

| Waste No. | Industry & Hazardous waste | Hazard code |
|---------------|--|----------------|
| Wood | | |
| preservation: | | |
| K001 | Bottom sediment sludge from the treatment of | (T) |

| | | 1 |
|---------------------|---|---------|
| | wastewaters from wood preserving processes that | |
| T | use creosote and/or pentachlorophenol. | |
| Inorganic pigments: | | |
| K002 | West out to the second of the second of the | / m \ |
| KUUZ | Wastewater treatment sludge from the production of chrome yellow and orange pigments. | (T) |
| K003 | Wastewater treatment sludge from the production | (T) |
| KUU3 | of molybdate orange pigments. | (1) |
| K004 | Wastewater treatment sludge from the production | (T) |
| FUUA | of zinc yellow pigments. | (1) |
| К005 | Wastewater treatment sludge from the production | (T) |
| ROOS | of chrome green pigments. | (1) |
| К006 | Wastewater treatment sludge from the production | (T) |
| 1000 | of chrome oxide green pigments (anhydrous and | (1) |
| | hydrated). | |
| K007 | Wastewater treatment sludge from the production | (T) |
| 1007 | of iron blue pigments. | (+) |
| К008 | Oven residue from the production of chrome | (T) |
| 1000 | oxide green pigments. | (1) |
| Organic | | |
| chemicals: | | |
| K009 | Distillation bottoms from the production of | (T) |
| 11003 | acetaldehyde from ethylene. | (-) |
| К010 | Distillation side cuts from the production of | (T) |
| | acetaldehyde from ethylene. | (-) |
| К011 | Bottom stream from the wastewater stripper in | (R,T) |
| | the production of acrylonitrile. | |
| к013 | Bottom stream from the acetonitrile column in | (R, |
| | the production of acrylonitrile. | T) |
| К014 | Bottoms from the acetonitrile purification | (T) |
| | column in the production of acrylonitrile. | |
| K015 | Still bottoms from the distillation of benzyl | (T) |
| | chloride. | |
| К016 | Heavy ends or distillation residues from the | (T) |
| | production of carbon tetrachloride. | |
| K017 | Heavy ends (still bottoms) from the | (T) |
| | purification column in the production of | |
| | epichlorohydrin. | |
| К018 | Heavy ends from the fractionation column in | (T) |
| | ethyl chloride production. | <u></u> |
| K019 | Heavy ends from the distillation of ethylene | (T) |
| | dichloride in ethylene dichloride production. | |
| K020 | Heavy ends from the distillation of vinyl | (T) |
| | chloride in vinyl chloride monomer production. | |
| K021 | Aqueous spent antimony catalyst waste from | (T) |
| | fluoromethanes production. | |
| K022 | Distillation bottom tars from the production of | (T) |
| | phenol/acetone from cumene. | |
| K023 | Distillation light ends from the production of | (T) |
| | phthalic anhydride from naphthalene. | |
| K024 | Distillation bottoms from the production of | (T) |
| | phthalic anhydride from naphthalene. | |
| K025 | Distillation bottoms from the production of | (T) |
| | nitrobenzene by the nitration of benzene. | |
| K026 | Stripping still tails from the production of | (T) |

| | methy ethyl pyridines. | |
|----------|---|--|
| K027 | Centrifuge and distillation residues from | (R, |
| | toluene diisocyanate production. | T) |
| K028 | Spent catalyst from the hydrochlorinator | (T) |
| | reactor in the production of 1,1,1- | |
| | trichloroethane. | |
| К029 | Waste from the product steam stripper in the | (T) |
| | production of 1,1,1- trichloroethane. | |
| K030 | Column bottoms or heavy ends from the combined | (T) |
| | production of trichloroethylene and | |
| **** | perchloroethylene. | (m) |
| K083 | Distillation bottoms from aniline production. | (T) |
| К085 | Distillation or fractionation column bottoms | (T) |
| 77.0.0.0 | from the production of chlorobenzenes. | (m) |
| K093 | Distillation light ends from the production of | (T) |
| 77.004 | phthalic anhydride from ortho-xylene. | (m) |
| K094 | Distillation bottoms from the production of | (T) |
| К095 | phthalic anhydride from ortho-xylene. | (T) |
| KU95 | Distillation bottoms from the production of | (1) |
| K096 | 1,1,1- trichloroethane. Heavy ends from the heavy ends column from the | (T) |
| KU96 | production of 1,1,1- trichloroethane. | (1) |
| K103 | Process residues from aniline extraction from | (T) |
| K103 | the production of aniline. | (1) |
| K104 | Combined wastewater streams generated from | (T) |
| K104 | nitrobenzene/aniline production. | (1) |
| K105 | Separated aqueous stream from the reactor | (T) |
| KIUJ | product- washing step in the production of | (1) |
| | chlorobenzenes. | |
| K107 | Column bottoms from product separation from the | (C,T) |
| 10107 | production of 1,1- dimethyl-hydrazine (UDMH) | (0,1) |
| | from carboxylic acid hydrazines. | |
| K108 | Condensed column overheads from product | (I, |
| | separation and condensed reactor vent gases from | T) |
| | the production of 1,1- dimethylhydrazine (UDMH) | , |
| | from carboxylic acid hydrazides. | |
| K109 | Spent filter cartridges from product | (T) |
| | purification from the production of 1,1- | |
| | dimethylhydrazine (UDMH) from carboxylic acid | |
| | hydrazides. | |
| K110 | Condensed column overheads from intermediate | (T) |
| | separation from the production of 1,1- | |
| | dimethylhydrazine (UDMH) from carboxylic acid | |
| | hydrazides. | |
| K111 | Product washwaters from the production of | (C, |
| | dinitrotoluene via nitration of toluene. | T) |
| K112 | Reaction by-product water from the drying | (T) |
| | column in the production of toluenediamine via | |
| | hydrogenation of dinitrotoluene. | 1 |
| K113 | Condensed liquid light ends from the | (T) |
| | purification of toluenediamine in the production | |
| | of toluenediamine via hydrogenation of | |
| | dinitrotoluene. | |
| K114 | Vicinals from the purification of | (T) |
| | toluenediamine in the production of | |
| | toluenediamine via hydrogenation of | |

| | dinitrotoluene. | |
|---------|---|-------|
| K115 | Heavy ends from the purification of toluenediamine in the production of | (T) |
| | toluenediamine via hydrogenation of | |
| | dinitrotoluene. | |
| K116 | Organic condensate from the solvent recovery | (T) |
| | column in the production of toluene diisocyanate | |
| | via phosgenation of toluenediamine. | |
| K117 | Wastewater from the reactor vent gas scrubber | (T) |
| | in the production of ethylene dibromide via | |
| | bromination of ethene. | |
| K118 | Spent adsorbent solids from purification of | (T) |
| | ethylene dibromide in the production of ethylene | |
| | dibromide via bromination of ethene. | |
| K136 | Still bottoms from the purification of ethylene | (T) |
| | dibromide in the production of ethylene | |
| | dibromide via bromination of ethene. | |
| K149 | Distillation bottoms from the production of | (T) |
| | alpha- (or methyl-) chlorinated toluenes, ring- | |
| | chlorinated toluenes, benzoyl chlorides, and | |
| | compounds with mixtures of these functional | |
| | groups, (This waste does not include still | |
| | bottoms from the distillation of benzyl | |
| | chloride.). | > |
| K150 | Organic residuals, excluding spent carbon | (T) |
| | adsorbent, from the spent chlorine gas and | |
| | hydrochloric acid recovery processes associated | |
| | with the production of alpha- (or methyl-) | |
| | chlorinated toluenes, ring-chlorinated | |
| | toluenes, benzoyl chlorides, and compounds with | |
| τz1 Γ 1 | mixtures of these functional groups. | / m \ |
| K151 | Wastewater treatment sludges, excluding | (T) |
| | neutralization and biological sludges, generated during the treatment of wastewaters from the | |
| | production of alpha-or methyl-) chlorinated | |
| | toluenes, ring-chlorinated toluenes, benzoyl | |
| | chlorides, and compounds with mixtures of these | |
| | functional groups. | |
| K156 | Organic waste (including heavy ends, still | (T) |
| 1(1)0 | bottoms, light ends, spent solvents, filtrates, | (1 / |
| | and decantates) from the production of | |
| | carbamates and carbamoyl oximes. (This listing | |
| | does not apply to wastes generated from the | |
| | manufacture of 3-iodo-2- propynyl n- | |
| | butylcarbamate.). | |
| K157 | Wastewaters (including scrubber waters, | (T) |
| - | condenser waters, washwaters, and separation | , , |
| | waters) from the production of carbamates and | |
| | carbamoyl oximes. (This listing does not apply | |
| | to wastes generated from the manufacture of 3- | |
| | iodo-2- propynyl n- butylcarbamate.). | |
| K158 | Bag house dusts and filter/separation solids | (T) |
| | from the production of carbamates and carbamoyl | , , |
| | oximes. (This listing does not apply to wastes | |
| | generated from the manufacture of 3-iodo-2- | |
| | propynyl n- butylcarbamate.). | |

| К159 | Organics from the treatment of thiocarbamate | (T) |
|----------------------|---|-----------|
| | wastes. | |
| K161 | Purification solids (including filtration, evaporation, and centrifugation solids), bag house dust and floor sweepings from the production of dithiocarbamate acids and their salts. (This listing does not include K125 or K126.). | (R, T) |
| K174 | Wastewater treatment sludges from the production of ethylene dichloride or vinyl chloride monomer (including sludges that result from commingled ethylene dichloride or vinyl chloride monomer wastewater and other wastewater), unless the sludges meet the following conditions: (i) they are disposed of in a subtitle C or non- hazardous landfill licensed or permitted by the state or federal government; (ii) they are not otherwise placed on the land prior to final disposal; and (iii) the generator maintains documentation demonstrating that the waste was either disposed of in an on- site landfill or consigned to a transporter or disposal facility that provided a written commitment to dispose of the waste in an off-site landfill. Respondents in any action brought to enforce the requirements of subtitle C must, upon a showing by the government that the respondent managed wastewater treatment sludges from the production of vinyl chloride monomer or ethylene dichloride, demonstrate that they meet the terms of the exclusion set forth above. In doing so, they must provide appropriate documentation (e.g., contracts between the generator and the landfill owner/operator, invoices documenting delivery of waste to landfill, etc.) that the terms of the exclusion were met. | (T) |
| K175 | Wastewater treatment sludges from the | (T) |
| | production of vinyl chloride monomer using mercuric chloride catalyst in an acetylene-based process. | |
| Inorganic chemicals: | | |
| K071 | Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used. | (T) |
| к073 | Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production. | (T) |
| K106 | Wastewater treatment sludge from the mercury cell process in chlorine production. | (T) |
| K176 | Baghouse filters from the production of antimony oxide, including filters from the production of intermediates (e.g., antimony | (E) |
| | metal or crude antimony oxide). | |

| | is speculatively accumulated or disposed, | |
|-------------|--|-------|
| | including slag from the production of | |
| | intermediates (e.g., antimony metal or crude | |
| | antimony oxide). | |
| K178 | Residues from manufacturing and manufacturing- | (T) |
| KI/O | site storage of ferric chloride from acids | (1) |
| | | |
| | formed during the production of titanium dioxide | |
| Pesticides: | using the chloride-ilmenite process. | |
| K031 | By-product salts generated in the production of | (T) |
| KUSI | MSMA and cacodylic acid. | (1) |
| K032 | Wastewater treatment sludge from the production | (T) |
| | of chlordane. | |
| К033 | Wastewater and scrub water from the | (T) |
| | chlorination of cyclopentadiene in the | |
| | production of chlordane. | |
| К034 | Filter solids from the filtration of | (T) |
| | hexachlorocyclopentadien e in the production of | . , |
| | chlordane. | |
| к035 | Wastewater treatment sludges generated in the | (T) |
| 11000 | production of creosote. | (=) |
| к036 | Still bottoms from toluene reclamation | (T) |
| 11050 | distillation in the production of disulfoton. | (±) |
| К037 | Wastewater treatment sludges from the | (T) |
| 1057 | production of disulfoton. | (1) |
| К038 | Wastewater from the washing and stripping of | (T) |
| K036 | phorate production. | (1) |
| К039 | Filter cake from the filtration of | / m \ |
| K039 | | (T) |
| | diethylphosphorodithioic acid in the production | |
| 77.0.4.0 | of phorate. | / m \ |
| K040 | Wastewater treatment sludge from the production | (T) |
| 77.0.4.1 | of phorate. | (=) |
| K041 | Wastewater treatment sludge from the production | (T) |
| | of toxaphene. | |
| K042 | Heavy ends or distillation residues from the | (T) |
| | distillation of tetrachlorobenzene in the | |
| | production of 2,4,5- T. | |
| K043 | 2,6-Dichlorophenol waste from the production of | (T) |
| | 2,4-D. | |
| К097 | Vacuum stripper discharge from the chlordane | (T) |
| | chlorinator in the production of chlordane. | |
| К098 | Untreated process wastewater from the | (T) |
| | production of toxaphene. | |
| К099 | Untreated wastewater from the production of | (T) |
| | 2,4-D. | |
| K123 | Process wastewater (including supernates, | (T) |
| | filtrates, and washwaters) from the production | |
| | of ethylenebisdithiocarbamic acid and its salt. | |
| K124 | Reactor vent scrubber water from the production | (C,T) |
| | of ethylenebisdithiocarbamic acid and its salts. | , |
| K125 | Filtration, evaporation, and centrifugation | (T) |
| - | solids from the production of | , , |
| | ethylenebisdithiocarbamic acid and its salts. | |
| K126 | Baghouse dust and floor sweepings in milling | (T) |
| 11120 | and packaging operations from the production or | (± / |
| | formulation of ethylenebisdithiocarbamic acid | |
| | Tormaracton or echyreneproactional ballic actu | |

| | and its salts. | |
|----------------|--|--------|
| K131 | Wastewater from the reactor and spent sulfuric | (C, |
| KIJI | acid from the acid dryer from the production of | T) |
| | methyl bromide. | 1 / |
| K132 | Spent absorbent and wastewater separator solids | (T) |
| 11132 | from the production of methyl bromide. | (-) |
| Explosives: | | |
| K044 | Wastewater treatment sludges from the | (R) |
| | manufacturing and processing of explosives. | |
| К045 | Spent carbon from the treatment of wastewater | (R) |
| | containing explosives. | |
| K046 | Wastewater treatment sludges from the | (R) |
| | manufacturing, formulation and loading of lead- | |
| | based initiating compounds. | |
| K047 | Pink/red water from TNT operations. | (R) |
| Petroleum | | |
| refining: | | |
| K048 | Dissolved air flotation (DAF) float from the | (T) |
| | petroleum refining industry. | |
| K049 | Slop oil emulsion solids from the petroleum | (T) |
| | refining industry. | (=) |
| К050 | Heat exchanger bundle cleaning sludge from the | (T) |
| 77.0.5.1 | petroleum refining industry. | (TT) |
| K051 | API separator sludge from the petroleum | (T) |
| T/0E2 | refining industry. Tank bottoms (leaded) from the petroleum | / TT \ |
| К052 | refining industry. | (T) |
| K169 | Crude oil storage tank sediment from petroleum | (T) |
| KIOJ | refining operations. | (1) |
| K170 | Clarified slurry oil tank sediment and/or in- | (T) |
| KI / O | line filter/separation solids from petroleum | (1) |
| | refining operations. | |
| K171 | Spent Hydrotreating catalyst from petroleum | (I,T) |
| | refining operations, including guard beds used | |
| | to desulfurize feeds to other catalytic reactors | |
| | (this listing does not include inert support | |
| | media). | |
| K172 | Spent Hydrorefining catalyst from petroleum | (I,T) |
| | refining operations, including guard beds used | |
| | to desulfurize feeds to other catalytic reactors | |
| | (this listing does not include inert support | |
| | media). | |
| Iron and steel | | |
| K061 | Emiggion gontrol dugt / gludgo from the primary | / Tr \ |
| VOQT | Emission control dust/ sludge from the primary production of steel in electric furnaces. | (T) |
| K062 | Spent pickle liquor generated by steel | (C, |
| 1002 | finishing operations of facilities within the | T) |
| | iron and steel industry (SIC Codes 331 and 332). | - ' |
| Primary | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | |
| copper: | | |
| Primary lead: | | |
| Primary zinc: | | |
| Primary | | |
| aluminum: | | |
| K088 | Spent potliners from primary aluminum | (T) |

| | | 1 |
|-----------------|--|-------|
| Former 11 | reduction. | |
| Ferroalloys: | | |
| Secondary lead: | | |
| K069 | Emission control dust/ sludge from secondary | (T) |
| K069 | lead smelting. (Note: This listing is stayed | (T) |
| | administratively for sludge generated from | |
| | secondary acid scrubber systems. The stay will | |
| | remain in effect until further administrative | |
| | action is taken. If EPA takes further action | |
| | effecting this stay, EPA will publish a notice | |
| | of the action in the Federal Register. | |
| K100 | Waste leaching solution from acid leaching of | (T) |
| | emission control dust/ sludge from secondary | (- / |
| | lead smelting. | |
| Veterinary pha | | |
| к084 | Wastewater treatment sludges generated during | (T) |
| | the production of veterinary pharmaceuticals | ` ′ |
| | from arsenic or organo- arsenic compounds. | |
| K101 | Distillation tar residues from the distillation | (T) |
| | of aniline-based compounds in the production of | |
| | veterinary pharmaceuticals from arsenic or | |
| | organo- arsenic compounds. | |
| K102 | Residue from the use of activated carbon for | (T) |
| | decolorization in the production of veterinary | |
| | pharmaceuticals from arsenic or organo- arsenic | |
| | compounds. | |
| Ink | | |
| formulation: | | |
| K086 | Solvent washes and sludges, caustic washes and | (T) |
| | sludges, or water washes and sludges from | |
| | cleaning tubs and equipment used in the | |
| | formulation of ink from pigments, driers, soaps, | |
| a. 1 ' | and stabilizers containing chromium and lead. | |
| Coking: | | (-) |
| K060 | Ammonia still lime sludge from coking | (T) |
| 7007 | operations. | / m \ |
| К087 | Decanter tank tar sludge from coking | (T) |
| т1 <i>1</i> 1 | operations. | /m\ |
| K141 | Process residues from the recovery of coal tar, including, but not limited to, collecting sump | (T) |
| | residues from the production of coke from coal | |
| | or the recovery of coke by-products produced | |
| | from coal. This listing does not include K087 | |
| | (decanter tank tar sludges from coking | |
| | operations). | |
| K142 | Tar storage tank residues from the production | (T) |
| | of coke from coal or from the recovery of coke | (-) |
| | by- products produced from coal. | |
| K143 | Process residues from the recovery of light | (T) |
| - | oil, including, but not limited to, those | `-' |
| | generated in stills, decanters, and wash oil | |
| | recovery units from the recovery of coke by- | |
| | products produced from coal. | |
| K144 | Wastewater sump residues from light oil | (T) |
| | refining, including, but not limited to, | |
| | | |

| | intercepting or contamination sump sludges from the recovery of coke by- products produced from coal. | |
|------|---|-----|
| K145 | Residues from naphthalene collection and recovery operations from the recovery of coke by- products produced from coal. | (T) |
| K147 | Tar storage tank residues from coal tar refining. | (T) |
| K148 | Residues from coal tar distillation, including but not limited to, still bottoms. | (T) |

Sec. 261.33 Discarded commercial chemical products, offspecification species, container residues, and spill residues thereof.

The following materials or items are hazardous wastes if and when they are discarded or intended to be discarded as described in Sec. 261.2(a)(2)(i), when they are mixed with waste oil or used oil or other material and applied to the land for dust suppression or road treatment, when they are otherwise applied to the land in lieu of their original intended use or when they are contained in products that are applied to the land in lieu of their original intended use, or when, in lieu of their original intended use, they are produced for use as (or as a component of) a fuel, distributed for use as a fuel, or burned as a fuel

- (a) Any commercial chemical product, or manufacturing chemical intermediate having the generic name listed in paragraph (e) or (f) of this section.
- (b) Any off-specification commercial chemical product or manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in paragraph (e) or (f) of this section.
- (c) Any residue remaining in a container or in an inner liner removed from a container that has held any commercial chemical product or manufacturing chemical intermediate having the generic name listed in paragraphs (e) or (f) of this section, unless the container is empty as defined in Sec. 261.7(b) of this chapter.

[Comment: Unless the residue is being beneficially used or reused, or legitimately recycled or reclaimed; or being accumulated, stored, transported or treated prior to such use, re-use, recycling or reclamation, EPA considers the residue to be intended for discard, and thus, a hazardous waste. An example of a legitimate re-use of the residue would be where the residue remains in the container and the container is used to hold the same commercial chemical product or manufacturing chemical intermediate it previously held. An example of the discard of the residue would be where the drum is sent to a drum reconditioner who reconditions the drum but discards the residue.]

(d) Any residue or contaminated soil, water or other debris resulting from the cleanup of a spill into or on any land or water of any commercial chemical product or manufacturing chemical intermediate having the generic name listed in paragraph (e) or (f) of this section, or any residue or contaminated soil, water or other debris resulting from the cleanup of a spill, into or on any land or water, of any off-specification chemical product and manufacturing chemical intermediate

which, if it met specifications, would have the generic name listed in paragraph (e) or (f) of this section.

[Comment: The phrase ``commercial chemical product or manufacturing chemical intermediate having the generic name listed in . . .'' refers to a chemical substance which is manufactured or formulated for commercial or manufacturing use which consists of the commercially pure grade of the chemical, any technical grades of the chemical that are produced or marketed, and all formulations in which the chemical is the sole active ingredient. It does not refer to a material, such as a manufacturing process waste, that contains any of the substances listed in paragraph (e) or (f). Where a manufacturing process waste is deemed to be a hazardous waste because it contains a substance listed in paragraph (e) or (f), such waste will be listed in either Sec. 261.31 or Sec. 261.32 or will be identified as a hazardous waste by the characteristics set forth in subpart C of this part.]

(e) The commercial chemical products, manufacturing chemical intermediates or off-specification commercial chemical products or manufacturing chemical intermediates referred to in paragraphs (a) through (d) of this section, are identified as acute hazardous wastes (H) and are subject to be the small quantity exclusion defined in Sec. 261.5(e).

[Comment: For the convenience of the regulated community the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), and R (Reactivity). Absence of a letter indicates that the compound only is listed for acute toxicity.]

These wastes and their corresponding EPA Hazardous Waste Numbers are:

| Hazardous waste No. | Chemical abstracts No. | Substance |
|------------------------|------------------------------|-----------------------------------|
| P023 | 107-20-0 | Acetaldehyde, chloro- |
| P002 | 591-08-2 | Acetamide, N-(aminothioxomethyl)- |
| P057 | 640-19-7 | Acetamide, 2-fluoro- |
| P058 | 62-74-8 | Acetic acid, fluoro-, sodium salt |
| P002 | 591-08-2 | 1-Acetyl-2-thiourea |
| P003 | 107-02-8 | Acrolein |
| P070 | 116-06-3 | Aldicarb |
| P203 | 1646-88-4 | Aldicarb sulfone. |
| P004 | 309-00-2 | Aldrin |
| P005 | 107-18-6 | Allyl alcohol |
| P006 | 20859-73-8 | Aluminum phosphide (R,T) |
| P007 | 2763-96-4 | 5-(Aminomethyl)-3-isoxazolol |
| P008 | 504-24-5 | 4-Aminopyridine |
| P009 | 131-74-8 | Ammonium picrate (R) |
| P119 | 7803-55-6 | Ammonium vanadate |
| P099 | 506-61-6 | Argentate(1-), bis(cyano-C)-, |
| | | potassium |
| P010 | 7778-39-4 | Arsenic acid H3 AsO4 |
| P012 | 1327-53-3 | Arsenic oxide As2 O3 |
| P011 | 1303-28-2 | Arsenic oxide As2 O5 |

| P011 P012 | 1303-28-2 1327-53-3 | Arsenic pentoxide Arsenic trioxide |
|--|---|--|
| P038 | 692-42-2 | |
| P036 | 696-28-6 | Arsonous dichloride, phenyl- |
| P054 | 151-56-4 | |
| P067 | 75-55-8 | Aziridine, 2-methyl- |
| P013 | 542-62-1 | |
| P024 | 106-47-8 | Benzenamine, 4-chloro- |
| P077 | 100-01-6 | Benzenamine, 4-nitro- |
| P028 | 100-44-7 | Benzene, (chloromethyl)- |
| P042 | 51-43-4 | 1,2-Benzenediol, 4-[1-hydroxy-2- |
| | | (methylamino)ethyl]-, (R)- |
| P046 | 122-09-8 | Benzeneethanamine, alpha,alpha-dimethyl- |
| P014 | 108-98-5 | |
| P127 | 1563-66-2 | 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate. |
| P188 | 57-64-7 | |
| | | 1,3a,8-trimethylpyrrolo[2,3b]indol- |
| | | 5- yl methylcarbamate ester (1:1). |
| P001 | \1\ 81-81-2 | |
| POOI | /1/ 01-01-2 | (3- oxo-1-phenylbutyl)-, & salts, |
| | | when present at concentrations |
| | | greater than 0.3% |
| P028 | 100-44-7 | _ |
| P015 | 7440-41-7 | |
| P015 P017 | 598-31-2 | |
| P017 P018 | 357-57-3 | |
| F010 | | |
| D045 | 30106_12 <i>_1</i> | 2-Butanone 3 3-dimethyl-1- |
| P045 | 39196-18-4 | (methylthio)-, |
| | | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime</pre> |
| P021 | 592-01-8 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide</pre> |
| P021 P021 | 592-01-8 592-01-8 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2</pre> |
| P021 | 592-01-8 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2-</pre> |
| P021 P021 P189 | 592-01-8 592-01-8 55285-14-8 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester.</pre> |
| P021 P021 | 592-01-8 592-01-8 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol-</pre> |
| P021 P021 P189 | 592-01-8 592-01-8 55285-14-8 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester.</pre> |
| P021 P021 P189 | 592-01-8 592-01-8 55285-14-8 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl</pre> |
| P021 P021 P189 | 592-01-8 592-01-8 55285-14-8 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3-</pre> |
| P021 P021 P189 P191 P192 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester.</pre> |
| P021 P021 P189 P191 P192 P190 P127 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 1129-41-5 1563-66-2 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester. Carbofuran.</pre> |
| P021 P021 P189 P191 P192 P190 P127 P022 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 1129-41-5 1563-66-2 75-15-0 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester. Carbofuran. Carbon disulfide</pre> |
| P021 P021 P189 P191 P192 P190 P127 P022 P095 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 1129-41-5 1563-66-2 75-15-0 75-44-5 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester. Carbofuran. Carbon disulfide Carbonic dichloride</pre> |
| P021 P021 P189 P191 P192 P190 P127 P022 P095 P189 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 1129-41-5 1563-66-2 75-15-0 75-44-5 55285-14-8 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester. Carbofuran. Carbon disulfide Carbonic dichloride Carbosulfan.</pre> |
| P021 P021 P189 P191 P192 P190 P127 P022 P095 P189 P023 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 1129-41-5 1563-66-2 75-15-0 75-44-5 55285-14-8 107-20-0 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester. Carbofuran. Carbon disulfide Carbonic dichloride Carbosulfan. Chloroacetaldehyde</pre> |
| P021 P021 P189 P191 P192 P190 P127 P022 P095 P189 P023 P024 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 1129-41-5 1563-66-2 75-15-0 75-44-5 55285-14-8 107-20-0 106-47-8 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester. Carbofuran. Carbon disulfide Carbonic dichloride Carbosulfan. Chloroacetaldehyde p-Chloroaniline</pre> |
| P021 P021 P189 P191 P192 P190 P127 P022 P095 P189 P023 P024 P026 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 1129-41-5 1563-66-2 75-15-0 75-44-5 55285-14-8 107-20-0 106-47-8 5344-82-1 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester. Carbofuran. Carbon disulfide Carbonic dichloride Carbosulfan. Chloroacetaldehyde p-Chloroaniline 1-(o-Chlorophenyl)thiourea</pre> |
| P021 P021 P189 P191 P192 P190 P127 P022 P095 P189 P023 P024 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 1129-41-5 1563-66-2 75-15-0 75-44-5 55285-14-8 107-20-0 106-47-8 5344-82-1 542-76-7 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester. Carbofuran. Carbon disulfide Carbonic dichloride Carbosulfan. Chloroacetaldehyde p-Chloroaniline 1-(o-Chlorophenyl)thiourea 3-Chloropropionitrile</pre> |
| P021 P021 P189 P191 P192 P190 P127 P022 P095 P189 P023 P024 P026 P027 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 1129-41-5 1563-66-2 75-15-0 75-44-5 55285-14-8 107-20-0 106-47-8 5344-82-1 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester. Carbofuran. Carbon disulfide Carbonic dichloride Carbosulfan. Chloroacetaldehyde p-Chloroaniline 1-(o-Chlorophenyl)thiourea 3-Chloropropionitrile Copper cyanide</pre> |
| P021 P021 P189 P191 P192 P190 P127 P022 P095 P189 P023 P024 P026 P027 P029 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 1129-41-5 1563-66-2 75-15-0 75-44-5 55285-14-8 107-20-0 106-47-8 5344-82-1 542-76-7 544-92-3 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester. Carbofuran. Carbon disulfide Carbonic dichloride Carbosulfan. Chloroacetaldehyde p-Chloroaniline 1-(o-Chlorophenyl)thiourea 3-Chloropropionitrile Copper cyanide Copper cyanide Cu(CN)</pre> |
| P021 P021 P189 P191 P192 P190 P127 P022 P095 P189 P023 P024 P026 P027 P029 P029 | 592-01-8 592-01-8 592-01-8 55285-14-8 644-64-4 119-38-0 1129-41-5 1563-66-2 75-15-0 75-44-5 55285-14-8 107-20-0 106-47-8 5344-82-1 542-76-7 544-92-3 544-92-3 | <pre>(methylthio)-, O-[methylamino)carbonyl] oxime Calcium cyanide Calcium cyanide Ca(CN)2 Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2- dimethyl- 7-benzofuranyl ester. Carbamic acid, dimethyl-, [(dimethyl- amino)carbonyl]- 5-methyl-1Hpyrazol- 3-yl ester. Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. Carbamic acid, methyl-, 3- methylphenyl ester. Carbofuran. Carbon disulfide Carbonic dichloride Carbosulfan. Chloroacetaldehyde p-Chloroaniline 1-(o-Chlorophenyl)thiourea 3-Chloropropionitrile Copper cyanide</pre> |

| | | otherwise specified |
|--------------|--------------------|---------------------------------------|
| P031 | 460-19-5 | Cyanogen |
| P033 | | Cyanogen chloride |
| P033 | 506-77-4 | |
| P034 | 131-89-5 | |
| P016 | 542-88-1 | |
| P036 | 696-28-6 | |
| P037 | 60-57-1 | Dieldrin |
| P038 | 692-42-2 | Diethylarsine |
| P041 | 311-45-5 | Diethyl-p-nitrophenyl phosphate |
| P040 | 297-97-2 | |
| | | phosphorothioate |
| P043 | | Diisopropylfluorophosphate (DFP) |
| P004 | 309-00-2 | |
| | | 1,2,3,4,10,10-hexa- chloro- |
| | | 1,4,4a,5,8,8a,-hexahydro-, |
| | | (1alpha,4alpha,4abeta,5alpha,8alpha,8 |
| | | abeta)- |
| P060 | 165 72 6 | 1,4,5,8-Dimethanonaphthalene, |
| P060 | 465-73-6 | 1,2,3,4,10,10-hexa- chloro- |
| | | 1,4,4a,5,8,8a-hexahydro-, |
| | | (1alpha,4alpha,4abeta,5beta,8beta,8ab |
| | | eta)- |
| | | |
| P037 | 60-57-1 | 2,7:3,6-Dimethanonaphth[2,3- |
| | | b]oxirene, 3,4,5,6,9,9-hexachloro- |
| | | 1a,2,2a,3,6,6a,7,7a-octahydro-, |
| | | (1aalpha, 2beta, 2aalpha, 3beta, |
| | | 6beta,6aalpha,7beta, 7aalpha)- |
| | | |
| | | |
| D051 | \ 1\ | 0.000 |
| P051 | \1\ 72-20-8 | 2,7:3,6-Dimethanonaphth [2,3- |
| | | b]oxirene, 3,4,5,6,9,9-hexachloro- |
| | | 1a,2,2a,3,6,6a,7,7a-octahydro-, |
| | | (1aalpha, 2beta, 2abeta, 3alpha, |
| | | 6alpha,6 abeta,7beta, 7aalpha)-, & |
| | | metabolites. |
| P044 | 60-51-5 | Dimethoate |
| P046 | 122-09-8 | alpha,alpha-Dimethylphenethylamine |
| P191 | 644-64-4 | |
| P047 | \1\ 534-52-1 | |
| P048 | 51-28-5 | |
| P020 | 88-85-7 | |
| P085 | 152-16-9 | Diphosphoramide, octamethyl- |
| P111 | 107-49-3 | |
| P039 | 298-04-4 | |
| P049 | 541-53-7 | Dithiobiuret |
| P185 | 26419-73-8 | 1,3-Dithiolane-2-carboxaldehyde, 2,4- |
| | | dimethyl-, O- [(methylamino)- |
| | | carbonyl]oxime. |
| P050 | 115-29-7 | |
| P088 | 145-73-3 | Endothall |
| _ 0 = 4 | | |
| P051 P051 | 72-20-8 72-20-8 | |

| D040 | F1 42 4 | The fact and hard are |
|--------------|---------------------|--|
| P042 P031 | 51-43-4 460-19-5 | |
| P194 | 23135-22-0 | |
| 1101 | 23133 22 0 | (dimethylamino)-N-[[(methylamino) |
| | | carbonyl]oxy]-2-oxo-, methyl ester. |
| P066 | 16752-77-5 | Ethanimidothioic acid, |
| 1000 | 10,02 ,, 0 | N-[[(methylamino)carbonyl]oxy]-, |
| | | methyl ester |
| P101 | 107-12-0 | - |
| P054 | 151-56-4 | |
| P097 | 52-85-7 | - |
| P056 | 7782-41-4 | Fluorine |
| P057 | 640-19-7 | Fluoroacetamide |
| P058 | 62-74-8 | Fluoroacetic acid, sodium salt |
| P198 | 23422-53-9 | Formetanate hydrochloride. |
| P197 | 17702-57-7 | Formparanate. |
| P065 | 628-86-4 | <pre>Fulminic acid, mercury(2+) salt (R,T)</pre> |
| P059 | 76-44-8 | Heptachlor |
| P062 | 757-58-4 | |
| P116 | 79-19-6 | Hydrazinecarbothioamide |
| P068 | 60-34-4 | Hydrazine, methyl- |
| P063 | 74-90-8 | Hydrocyanic acid |
| P063 | 74-90-8 | Hydrogen cyanide |
| P096 | 7803-51-2 | Hydrogen phosphide |
| P060 | 465-73-6 | Isodrin |
| P192 | 119-38-0 | Isolan. |
| P202 | 64-00-6 | 3-Isopropylphenyl N-methylcarbamate. |
| P007 | 2763-96-4 | 3(2H)-Isoxazolone, 5-(aminomethyl)- |
| P196 | 15339-36-3 | Manganese, |
| T106 | 15220 26 2 | bis(dimethylcarbamodithioato-S,S')-, |
| P196 | 15339-36-3 | Manganese dimethyldithiocarbamate. |
| P092 | 62-38-4 | Mercury, (acetato-0)phenyl- |
| P065 P082 | 628-86-4 62-75-9 | Mercury fulminate (R,T) |
| P064 | 624-83-9 | Methanamine, N-methyl-N-nitroso- Methane, isocyanato- |
| P016 | 542-88-1 | Methane, oxybis[chloro- |
| P112 | 509-14-8 | Methane, tetranitro- (R) |
| P118 | 75-70-7 | Methanethiol, trichloro- |
| P198 | 23422-53-9 | Methanimidamide, N,N-dimethyl-N'-[3- |
| 1100 | 23122 33 9 | [[(methylamino) - carbonyl]oxy] |
| | | phenyl]- , monohydrochloride. |
| | | Filen, 1, menon, and composited |
| P197 | 17702-57-7 | Methanimidamide, N,N-dimethyl-N'-[2- |
| | | methyl-4- |
| | | [[(methylamino)carbonyl]oxy]phenyl]- |
| | | |
| P050 | 115-29-7 | 6,9-Methano-2,4,3-benzodioxathiepin, |
| | | 6,7,8,9,10,10- |
| | | hexachloro-1,5,5a,6,9,9a-hexahydro-, |
| | | 3-oxide |
| P059 | 76-44-8 | 4,7-Methano-1H-indene, 1,4,5,6,7,8,8- |
| | | heptachloro- |
| | | 3a,4,7,7a-tetrahydro- |
| P199 | 2032-65-7 | Methiocarb. |
| P066 | 16752-77-5 | Methomyl |
| P068 | 60-34-4 | Methyl hydrazine |
| P064 | 624-83-9 | Methyl isocyanate |
| | | |

| D060 | 75.06.5 | 0 Mathaellantania |
|------|--------------|--------------------------------------|
| P069 | 75-86-5 | 4 |
| P071 | 298-00-0 | |
| P190 | 1129-41-5 | |
| P128 | 315-8-4 | |
| P072 | 86-88-4 | alpha-Naphthylthiourea |
| P073 | 13463-39-3 | Nickel carbonyl |
| P073 | 13463-39-3 | Nickel carbonyl Ni(CO)4, (T-4)- |
| P074 | 557-19-7 | |
| P074 | 557-19-7 | Nickel cynaide Ni(CN)2 |
| P075 | \1\ 54-11-5 | Nicotine, & salts |
| P076 | 10102-43-9 | Nitric oxide |
| P070 | | p-Nitroaniline |
| | 100-01-6 | |
| P078 | 10102-44-0 | Nitrogen dioxide |
| P076 | 10102-43-9 | Nitrogen oxide NO |
| P078 | 10102-44-0 | Nitrogen oxide NO2 |
| P081 | 55-63-0 | Nitroglycerine (R) |
| P082 | 62-75-9 | N-Nitrosodimethylamine |
| P084 | 4549-40-0 | N-Nitrosomethylvinylamine |
| P085 | 152-16-9 | Octamethylpyrophosphoramide |
| P087 | 20816-12-0 | Osmium oxide OsO4, (T-4)- |
| P087 | 20816-12-0 | Osmium tetroxide |
| P088 | 145-73-3 | 7-Oxabicyclo[2.2.1]heptane-2,3- |
| 1000 | 113 /3 3 | dicarboxylic acid |
| D104 | 22125 22 0 | - |
| P194 | 23135-22-0 | - |
| P089 | 56-38-2 | |
| P034 | 131-89-5 | |
| P048 | 51-28-5 | |
| P047 | \1\ 534-52-1 | Phenol, 2-methyl-4,6-dinitro-, & |
| | | salts |
| P020 | 88-85-7 | Phenol, 2-(1-methylpropyl)-4,6- |
| | | dinitro- |
| P009 | 131-74-8 | Phenol, 2,4,6-trinitro-, ammonium |
| salt | | |
| Daic | | (R) |
| P128 | 315-18-4 | |
| PIZO | 313-10-4 | |
| D100 | 2022 65 7 | dimethyl-, methylcarbamate (ester). |
| P199 | 2032-65-7 | |
| | | methylcarbamate |
| P202 | 64-00-6 | Phenol, 3-(1-methylethyl)-, methyl |
| | | carbamate. |
| P201 | 2631-37-0 | Phenol, 3-methyl-5-(1-methylethyl)-, |
| | | methyl carbamate. |
| P092 | 62-38-4 | Phenylmercury acetate |
| P093 | 103-85-5 | Phenylthiourea |
| P094 | 298-02-2 | Phorate |
| P095 | 75-44-5 | Phosgene |
| P096 | 7803-51-2 | |
| | 311-45-5 | |
| P041 | 311-45-5 | Phosphoric acid, diethyl 4- |
| | | nitrophenyl ester |
| -000 | | |
| P039 | 298-04-4 | Phosphorodithioic acid, 0,0-diethyl |
| | | S-[2-(ethylthio)ethyl] ester |
| P094 | 298-02-2 | Phosphorodithioic acid, 0,0-diethyl |
| | | S-[(ethylthio)methyl] ester |
| P044 | 60-51-5 | Phosphorodithioic acid, 0,0-dimethyl |
| | | [2-(methyl amino)-2-oxoethyl] |
| | | ester |
| | | |

| D042 | FF 01 4 | |
|------|-------------|--|
| P043 | 55-91-4 | Phosphorofluoridic acid, bis(1-methylethyl) ester |
| P089 | 56-38-2 | |
| | | 4- nitrophenyl) ester |
| D040 | 005 05 0 | |
| P040 | 297-97-2 | Phosphorothioic acid, 0,0-diethyl 0-pyrazinyl ester |
| P097 | 52-85-7 | |
| | | O-[4-[(dimethylamino) |
| | | sulfonyl]phenyl] 0,0-dimethyl |
| | | ester |
| P071 | 298-00-0 | Phosphorothioic acid, 0,0,-dimethyl |
| | | O-(4-nitrophenyl) ester |
| P204 | 57-47-6 | Physostigmine. |
| P188 | 57-64-7 | Physostigmine salicylate. |
| P110 | 78-00-2 | - |
| P098 | 151-50-8 | Potassium cyanide |
| P098 | 151-50-8 | - |
| P099 | 506-61-6 | Potassium silver cyanide |
| P201 | 2631-37-0 | |
| P070 | 116-06-3 | |
| P203 | 1646-88-4 | O-[(methylamino)carbonyl]oxime |
| P203 | 1040-00-4 | <pre>Propanal, 2-methyl-2-(methyl- sulfonyl)-,O-[(methylamino)</pre> |
| | | carbonyl] oxime. |
| P101 | 107-12-0 | Propanenitrile |
| P027 | 542-76-7 | |
| P069 | 75-86-5 | Propanenitrile, 2-hydroxy-2-methyl- |
| P081 | 55-63-0 | 1,2,3-Propanetriol, trinitrate (R) |
| P017 | 598-31-2 | 2-Propanone, 1-bromo- |
| P102 | 107-19-7 | Propargyl alcohol |
| P003 | 107-02-8 | 2-Propenal |
| P005 | 107-18-6 | 2-Propen-1-ol |
| P067 | 75-55-8 | 1,2-Propylenimine |
| P102 | 107-19-7 | 2-Propyn-1-ol |
| P008 | 504-24-5 | 4-Pyridinamine |
| P075 | \1\ 54-11-5 | Pyridine, 3-(1-methyl-2- |
| | | pyrrolidinyl)- , (S)-, |
| | | & salts |
| P204 | 57-47-6 | Pyrrolo[2,3-b]indol-5-ol, |
| 1201 | 3, 1, 3 | 1,2,3,3a,8,8a-hexahydro-1,3a,8- |
| | | trimethyl-, |
| | | methylcarbamate (ester), (3aS-cis) |
| P114 | 12039-52-0 | Selenious acid, dithallium(1+) salt |
| P103 | 630-10-4 | Selenourea |
| P104 | 506-64-9 | Silver cyanide |
| P104 | 506-64-9 | Silver cyanide Ag(CN) |
| P105 | 26628-22-8 | Sodium azide |
| P106 | 143-33-9 | Sodium cyanide |
| P106 | 143-33-9 | Sodium cyanide Na(CN) |
| P108 | \1\ 57-24-9 | Strychnidin-10-one, & salts |
| P018 | 357-57-3 | - |
| P108 | \1\ 57-24-9 | |
| P115 | 7446-18-6 | Sulfuric acid, dithallium(1+) salt |

| P109 | 3689-24-5 | Tetraethyldithiopyrophosphate |
|------|-------------|--|
| P110 | 78-00-2 | Tetraethyl lead |
| P111 | 107-49-3 | Tetraethyl pyrophosphate |
| P112 | 509-14-8 | Tetranitromethane (R) |
| P062 | 757-58-4 | Tetraphosphoric acid, hexaethyl ester |
| P113 | 1314-32-5 | Thallic oxide |
| P113 | 1314-32-5 | Thallium oxide Tl2 O3 |
| P114 | 12039-52-0 | Thallium(I) selenite |
| P115 | 7446-18-6 | Thallium(I) sulfate |
| P109 | 3689-24-5 | Thiodiphosphoric acid, tetraethyl ester |
| P045 | 39196-18-4 | |
| P049 | 541-53-7 | |
| P014 | 108-98-5 | |
| P116 | 79-19-6 | - |
| P026 | 5344-82-1 | |
| P072 | 86-88-4 | |
| P093 | 103-85-5 | Thiourea, phenyl- |
| P185 | 26419-73-8 | Tirpate. |
| P123 | 8001-35-2 | |
| P118 | 75-70-7 | |
| P119 | 7803-55-6 | Vanadic acid, ammonium salt |
| P120 | 1314-62-1 | |
| P120 | 1314-62-1 | Vanadium pentoxide |
| P084 | 4549-40-0 | Vinylamine, N-methyl-N-nitroso- |
| P001 | \1\ 81-81-2 | Warfarin, & salts, when present at |
| | 107.00.4 | concentrations greater than 0.3% |
| P205 | 137-30-4 | <pre>Zinc, bis(dimethylcarbamodithioato- S,S')-,</pre> |
| P121 | 557-21-1 | Zinc cyanide |
| P121 | 557-21-1 | Zinc cyanide Zn(CN)2 |
| P122 | 1314-84-7 | |
| | | <pre>at concentrations greater than 10% (R,T)</pre> |
| P205 | 137-30-4 | Ziram. |
| | | |

\1\ CAS Number given for parent compound only.

(f) The commercial chemical products, manufacturing chemical intermediates, or off-specification commercial chemical products referred to in paragraphs (a) through (d) of this section, are identified as toxic wastes (T), unless otherwise designated and are subject to the small quantity generator exclusion defined in Sec. 261.5 (a) and (g).

[Comment: For the convenience of the regulated community, the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), R (Reactivity), I (Ignitability) and C (Corrosivity). Absence of a letter indicates that the compound is only listed for toxicity.]

These wastes and their corresponding EPA Hazardous Waste Numbers are:

Chemical Hazardous waste abstracts

No.

```
30558-43-1 A2213.
U394
                         75-07-0 Acetaldehyde (I)
75-87-6 Acetaldehyde, trichloro-
U001
U034
U187
                         62-44-2 Acetamide, N-(4-ethoxyphenyl)-
U005
                         53-96-3 Acetamide, N-9H-fluoren-2-yl-
U240
                     1\ 94-75-7 Acetic acid, (2,4-dichlorophenoxy)-,
                                   salts & esters
                        141-78-6 Acetic acid ethyl ester (I)
U112
U144
                        301-04-2 Acetic acid, lead(2+) salt
U214
                        563-68-8 Acetic acid, thallium(1+) salt
see F027
                         93-76-5 Acetic acid, (2,4,5-
                                   trichlorophenoxy)-
U002
                         67-64-1 Acetone (I)
                         75-05-8 Acetonitrile (I,T)
98-86-2 Acetophenone
U003
U004
U005
                         53-96-3 2-Acetylaminofluorene
U006
                         75-36-5 Acetyl chloride (C,R,T)
                         79-06-1 Acrylamide
U007
                         79-10-7 Acrylic acid (I)
W008
                        107-13-1 Acrylonitrile
U009
                         61-82-5 Amitrole
U011
U012
                         62-53-3 Aniline (I,T)
                         75-60-5 Arsinic acid, dimethyl-
U136
U014
                        492-80-8 Auramine
U015
                        115-02-6 Azaserine
                         50-07-7 Azirino[2',3':3,4]pyrrolo[1,2-
U010
                                   a]indole-4,7-dione,6-amino-8-
                                   [[(aminocarbonyl)oxy]methyl]-
                                   1,1a,2,8,8a,8b-hexahydro-8a-
                                   methoxy-5- methyl-,[1aS-
                                    (laalpha, 8beta,8aalpha,8balpha)]-
U280
                        101-27-9 Barban.
U278
                      22781-23-3 Bendiocarb.
                      22961-82-6 Bendiocarb phenol.
U364
                      17804-35-2 Benomyl.
U271
                         56-49-5 Benz[j]aceanthrylene, 1,2-dihydro-3-
U157
                                   methyl-
                        225-51-4 Benz[c]acridine
U016
U017
                         98-87-3 Benzal chloride
U192
                      23950-58-5 Benzamide, 3,5-dichloro-N-(1,1-
                                   dimethyl-2-propynyl)-
                         56-55-3 Benz[a]anthracene
U018
U094
                         57-97-6 Benz[a]anthracene, 7,12-dimethyl-
                         62-53-3 Benzenamine (I,T)
U012
                        492-80-8 Benzenamine, 4,4'-
U014
                                   carbonimidoylbis[N,N- dimethyl-
U049
                       3165-93-3 Benzenamine, 4-chloro-2-methyl-,
                                   hydrochloride
TJ093
                         60-11-7 Benzenamine, N,N-dimethyl-4-
                                   (phenylazo)-
```

| U328 U353 U158 | 95-53-4 106-49-0 101-14-4 | |
|----------------------|---------------------------------|--|
| U222 U181 U019 | 636-21-5 99-55-8 71-43-2 | Benzenamine, 2-methyl-5-nitro- |
| U038 | 510-15-6 | |
| U030 U035 | 101-55-3 305-03-3 | _ |
| U037 | 108-90-7 | |
| U221 | 25376-45-8 | |
| U028 | 117-81-7 | |
| U069 | 84-74-2 | 1,2-Benzenedicarboxylic acid, dibutyl ester |
| U088 | 84-66-2 | 1,2-Benzenedicarboxylic acid, diethyl ester |
| U102 | 131-11-3 | dimethyl ester |
| U107 | 117-84-0 | ester |
| U070 | 95-50-1 | Benzene, 1,2-dichloro- |
| U071 | 541-73-1 | Benzene, 1,3-dichloro- |
| U072 | 106-46-7 | |
| U060 | 72-54-8 | Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro- |
| U017 | 98-87-3 | Benzene, (dichloromethyl)- |
| U223 | 26471-62-5 | (R,T) |
| U239 | 1330-20-7 | - |
| U201 | 108-46-3 | |
| U127 | 118-74-1 | |
| U056 | 110-82-7 | |
| U220 | 108-88-3 | Benzene, methyl- |
| U105 | 121-14-2 | Benzene, 1-methyl-2,4-dinitro- |
| U106 | 606-20-2 | Benzene, 2-methyl-1,3-dinitro- |
| U055 | 98-82-8 | Benzene, (1-methylethyl)- (I) |
| U169 | 98-95-3 | Benzene, nitro- |
| U183 | 608-93-5 | Benzene, pentachloro- |
| U185 | 82-68-8 | Benzene, pentachloronitro- |
| U020 | 98-09-9 | Benzenesulfonic acid chloride (C,R) |
| U020 | 98-09-9 | Benzenesulfonyl chloride (C,R) |
| U207 | 95-94-3 | Benzene, 1,2,4,5-tetrachloro- |
| U061 | 50-29-3 | Benzene, 1,1'-(2,2,2- trichloroethylidene)bis[4-chloro- |
| U247 | 72-43-5 | <pre>Benzene, 1,1'-(2,2,2- trichloroethylidene)bis[4- methoxy-</pre> |
| U023 | 98-07-7 | Benzene, (trichloromethyl)- |
| U234 | 99-35-4 | |
| U021 | 92-87-5 | |
| U202 | \1\ 81-07-2 | 1,2-Benzisothiazol-3(2H)-one, 1,1- |

| | | dioxide, & salts |
|--------------|---------------------|---|
| U278 | 22781-23-3 | |
| 0270 | 22701 23 3 | methyl carbamate. |
| U364 | 22961-82-6 | 1,3-Benzodioxol-4-ol, 2,2-dimethyl-, |
| U203 | 94-59-7 | |
| U141 | 120-58-1 | 1,3-Benzodioxole, 5-(1-propenyl)- |
| U367 | 1563-38-8 | 7-Benzofuranol, 2,3-dihydro-2,2- |
| | | dimethyl- |
| U090 | 94-58-6 | |
| U064 | 189-55-9 | |
| U248 | \1\81-81-2 | 2H-1-Benzopyran-2-one, 4-hydroxy-3 |
| | | <pre>-(3-oxo-1-phenyl-butyl)-, & salts, when present at concentrations of</pre> |
| | | 0.3% or less |
| | | 0.3% Of less |
| U022 | 50-32-8 | Benzo[a]pyrene |
| U197 | 106-51-4 | |
| U023 | 98-07-7 | |
| U085 | 1464-53-5 | 2,2'-Bioxirane |
| U021 | 92-87-5 | |
| U073 | 91-94-1 | [1,1'-Biphenyl]-4,4'-diamine, 3,3'- |
| | | dichloro- |
| U091 | 119-90-4 | [1,1'-Biphenyl]-4,4'-diamine, 3,3'- |
| | | dimethoxy- |
| U095 | 119-93-7 | |
| | FF 0F 0 | dimethyl- |
| U225 | 75-25-2 | |
| U030 U128 | 101-55-3 87-68-3 | 4-Bromophenyl phenyl ether 1,3-Butadiene, 1,1,2,3,4,4- |
| 0120 | 07-00-3 | hexachloro- |
| U172 | 924-16-3 | 1-Butanamine, N-butyl-N-nitroso- |
| U031 | 71-36-3 | 1-Butanol (I) |
| U159 | 78-93-3 | 2-Butanone (I,T) |
| U160 | 1338-23-4 | |
| U053 | 4170-30-3 | |
| U074 | 764-41-0 | 2-Butene, 1,4-dichloro- (I,T) |
| U143 | 303-34-4 | |
| | | dihydroxy- |
| | | 2-(1-methoxyethyl)-3-methyl-1- |
| | | oxobutoxy]methyl]- |
| | | 2,3,5,7a-tetrahydro-1H-pyrrolizin-1- |
| | | yl ester, |
| U031 | 71-36-3 | [1S-[1alpha(Z),7(2S*,3R*),7aalpha]]- n-Butyl alcohol (I) |
| U136 | 75-60-5 | Cacodylic acid |
| U032 | 13765-19-0 | Calcium chromate |
| U372 | 10605-21-7 | Carbamic acid, 1H-benzimidazol-2-yl, |
| 00.2 | 10000 21 / | methyl ester. |
| U271 | 17804-35-2 | Carbamic acid, [1- |
| | | [(butylamino)carbonyl]-1H- |
| | | benzimidazol-2-yl]-, methyl ester. |
| U280 | 101-27-9 | |
| | | chloro-2-butynyl ester. |
| U238 | 51-79-6 | |
| U178 | 615-53-2 | _ |
| TT 2 7 2 | 100 40 0 | ester |
| U373 | 122-42-9 | Carbamic acid, phenyl-, 1-methylethyl |

| | | ester. |
|--------------|----------------------|--|
| U409 | 23564-05-8 | Carbamic acid, [1,2-phenylenebis (iminocarbonothioyl)]bis-, dimethyl |
| 11007 | 70 44 7 | ester. |
| U097 U389 | 79-44-7 2303-17-5 | Carbamic chloride, dimethyl- Carbamothioic acid, bis(1- |
| 0309 | 2303-17-5 | methylethyl) - , S-(2,3,3-trichloro-2 -propenyl) ester. |
| U387 | 52888-80-9 | Carbamothioic acid, dipropyl-, S- (phenylmethyl) ester. |
| U114 | \1\ 111-54-6 | Carbamodithioic acid, 1,2- ethanediylbis-, salts & esters |
| U062 | 2303-16-4 | Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester |
| U279 | 63-25-2 | |
| U372 | 10605-21-7 | Carbendazim. |
| U367 | 1563-38-8 | Carbofuran phenol. |
| U215 | 6533-73-9 | Carbonic acid, dithallium(1+) salt |
| U033 | 353-50-4 | Carbonic difluoride |
| U156 | 79-22-1 | <pre>Carbonochloridic acid, methyl ester (I,T)</pre> |
| U033 | 353-50-4 | Carbon oxyfluoride (R,T) |
| U211 | 56-23-5 | Carbon tetrachloride |
| U034 | 75-87-6 | Chloral |
| U035 | 305-03-3 | Chlorambucil |
| U036 | 57-74-9 | Chlordane, alpha & gamma isomers |
| U026 | 494-03-1 | Chlornaphazin |
| U037 | 108-90-7 | Chlorobenzene |
| U038 | 510-15-6 | Chlorobenzilate |
| U039 U042 | 59-50-7 110-75-8 | p-Chloro-m-cresol 2-Chloroethyl vinyl ether |
| 0042 | 110 75 0 | 2 Chioroechyr vinyr ether |
| U044 | 67-66-3 | Chloroform |
| U046 | 107-30-2 | Chloromethyl methyl ether |
| U047 | 91-58-7 | beta-Chloronaphthalene |
| U048 | 95-57-8 | o-Chlorophenol |
| U049 | 3165-93-3 | 4-Chloro-o-toluidine, hydrochloride |
| U032 | 13765-19-0 | Chromic acid H2 CrO4, calcium salt |
| U050 | 218-01-9 | Chrysene |
| U051 | 1210 55 2 | Creosote |
| U052 | 1319-77-3 | Cresol (Cresylic acid) |
| U053 | 4170-30-3 | Crotonaldehyde Cumene (I) |
| U055 U246 | 98-82-8 506-68-3 | Cyanogen bromide (CN)Br |
| U197 | 106-51-4 | 2,5-Cyclohexadiene-1,4-dione |
| U056 | 110-82-7 | Cyclohexane (I) |
| U129 | 58-89-9 | Cyclohexane, 1,2,3,4,5,6-hexachloro-, |
| 0125 | 30 05 5 | (lalpha, 2alpha, 3beta, 4alpha, 5alpha, 6b eta)- |
| U057 | 108-94-1 | Cyclohexanone (I) |
| U130 | 77-47-4 | 1,3-Cyclopentadiene, 1,2,3,4,5,5- hexachloro- |
| U058 | 50-18-0 | Cyclophosphamide |
| U240 | \1\ 94-75-7 | 2,4-D, salts & esters |
| | | |

| U059 | 20830-81-3 | Daunomycin |
|------|------------|---------------------------------------|
| U060 | 72-54-8 | DDD |
| U061 | 50-29-3 | DDT |
| U062 | 2303-16-4 | Diallate |
| U063 | 53-70-3 | Dibenz[a,h]anthracene |
| U064 | 189-55-9 | |
| U066 | 96-12-8 | 1,2-Dibromo-3-chloropropane |
| U069 | 84-74-2 | |
| U070 | 95-50-1 | |
| U071 | 541-73-1 | m-Dichlorobenzene |
| U072 | 106-46-7 | |
| U073 | | 3,3'-Dichlorobenzidine |
| U074 | 764-41-0 | |
| U075 | 75-71-8 | |
| U078 | 75-35-4 | |
| U079 | 156-60-5 | 1,2-Dichloroethylene |
| U025 | 111-44-4 | |
| U027 | 108-60-1 | Dichloroisopropyl ether |
| U024 | 111-91-1 | Dichloromethoxy ethane |
| U081 | 120-83-2 | |
| U082 | 87-65-0 | |
| U084 | 542-75-6 | |
| U085 | 1464-53-5 | |
| U108 | 123-91-1 | |
| U028 | 117-81-7 | Diethylhexyl phthalate |
| U395 | 5952-26-1 | Diethylene glycol, dicarbamate. |
| U086 | 1615-80-1 | N,N'-Diethylhydrazine |
| U087 | 3288-58-2 | |
| U088 | 84-66-2 | Diethyl phthalate |
| U089 | 56-53-1 | |
| U090 | 94-58-6 | Dihydrosafrole |
| U091 | 119-90-4 | |
| U092 | 124-40-3 | |
| U093 | 60-11-7 | |
| U094 | 57-97-6 | |
| U095 | 119-93-7 | |
| U096 | 80-15-9 | |
| | | Dimethylbenzylhydroperoxide (R) |
| U097 | 79-44-7 | Dimethylcarbamoyl chloride |
| U098 | 57-14-7 | |
| U099 | 540-73-8 | 1,2-Dimethylhydrazine |
| U101 | 105-67-9 | 2,4-Dimethylphenol |
| U102 | 131-11-3 | Dimethyl phthalate |
| U103 | 77-78-1 | Dimethyl sulfate |
| U105 | 121-14-2 | 2,4-Dinitrotoluene |
| U106 | 606-20-2 | 2,6-Dinitrotoluene |
| U107 | 117-84-0 | Di-n-octyl phthalate |
| U108 | 123-91-1 | 1,4-Dioxane |
| U109 | 122-66-7 | 1,2-Diphenylhydrazine |
| U110 | 142-84-7 | Dipropylamine (I) |
| U111 | 621-64-7 | Di-n-propylnitrosamine |
| U041 | 106-89-8 | Epichlorohydrin |
| U001 | 75-07-0 | Ethanal (I) |
| U404 | 121-44-8 | Ethanamine, N,N-diethyl- |
| U174 | 55-18-5 | - |
| U155 | 91-80-5 | 1,2-Ethanediamine, N,N-dimethyl-N'-2- |
| | | pyridinyl-N'-(2-thienylmethyl)- |
| | | _ |

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U067
                        106-93-4 Ethane, 1,2-dibromo-
                         75-34-3 Ethane, 1,1-dichloro-
U076
                        107-06-2 Ethane, 1,2-dichloro-67-72-1 Ethane, hexachloro-
U077
U131
U024
                        111-91-1 Ethane, 1,1'-[methylenebis
                                  (oxy)]bis[2- chloro-
U117
                         60-29-7 Ethane, 1,1'-oxybis-(I)
11025
                        111-44-4 Ethane, 1,1'-oxybis[2-chloro-
                         76-01-7 Ethane, pentachloro-
U184
                        630-20-6 Ethane, 1,1,1,2-tetrachloro-
U208
TJ209
                         79-34-5 Ethane, 1,1,2,2-tetrachloro-
                         62-55-5 Ethanethioamide
U218
U226
                         71-55-6 Ethane, 1,1,1-trichloro-
U227
                         79-00-5 Ethane, 1,1,2-trichloro-
U410
                      59669-26-0 Ethanimidothioic acid, N,N'-
                                  [thiobis[(methylimino)
                                   carbonyloxy]]bis-,
                                   dimethyl ester
U394
                      30558-43-1 Ethanimidothioic acid, 2-
                                   (dimethylamino)-N-hydroxy-2-oxo-,
                                   methyl ester.
                        110-80-5 Ethanol, 2-ethoxy-
U359
                       1116-54-7 Ethanol, 2,2'-(nitrosoimino)bis-
U173
                       5952-26-1 Ethanol, 2,2'-oxybis-, dicarbamate.
11395
                         98-86-2 Ethanone, 1-phenyl-
U004
U043
                         75-01-4 Ethene, chloro-
U042
                        110-75-8 Ethene, (2-chloroethoxy)-
U078
                         75-35-4 Ethene, 1,1-dichloro-
                        156-60-5 Ethene, 1,2-dichloro-, (E)-
U079
                        127-18-4 Ethene, tetrachloro-
U210
                        79-01-6 Ethene, trichloro-
U228
                        141-78-6 Ethyl acetate (I)
U112
U113
                        140-88-5 Ethyl acrylate (I)
U238
                         51-79-6 Ethyl carbamate (urethane)
                         60-29-7 Ethyl ether (I)
TJ117
                    \1\ 111-54-6 Ethylenebisdithiocarbamic acid, salts
U114
                                   & esters
U067
                        106-93-4 Ethylene dibromide
T077
                        107-06-2 Ethylene dichloride
U359
                        110-80-5 Ethylene glycol monoethyl ether
                         75-21-8 Ethylene oxide (I,T)
TJ115
                         96-45-7 Ethylenethiourea
U116
                         75-34-3 Ethylidene dichloride
U076
U118
                         97-63-2 Ethyl methacrylate
                         62-50-0 Ethyl methanesulfonate
U119
U120
                        206-44-0 Fluoranthene
U122
                         50-00-0 Formaldehyde
                         64-18-6 Formic acid (C,T)
U123
                        110-00-9 Furan (I)
U124
                         98-01-1 2-Furancarboxaldehyde (I)
U125
U147
                        108-31-6 2,5-Furandione
U213
                        109-99-9 Furan, tetrahydro-(I)
U125
                         98-01-1 Furfural (I)
U124
                        110-00-9 Furfuran (I)
U206
                      18883-66-4 Glucopyranose, 2-deoxy-2-(3-methyl-3-
                                   nitrosoureido)-, D-
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| U206 | 18883-66-4 | D-Glucose, 2-deoxy-2- [[(methylnitrosoamino)- carbonyl]amino]- |
|--------------|---------------------|--|
| U126 | 765-34-4 | Glycidylaldehyde |
| U163 | 70-25-7 | Guanidine, N-methyl-N'-nitro-N-nitroso- |
| U127 | 118-74-1 | Hexachlorobenzene |
| U128 | 87-68-3 | Hexachlorobutadiene |
| U130 | 77-47-4 | Hexachlorocyclopentadiene |
| U131 | 67-72-1 | Hexachloroethane |
| U132 | 70-30-4 | Hexachlorophene |
| U243 | 1888-71-7 | Hexachloropropene |
| U133 | 302-01-2 | Hydrazine (R,T) |
| U086 | 1615-80-1 | Hydrazine, 1,2-diethyl- |
| U098 | 57-14-7 | Hydrazine, 1,1-dimethyl- |
| U099 | 540-73-8 | Hydrazine, 1,2-dimethyl- |
| U109 | 122-66-7 | Hydrazine, 1,2-diphenyl- |
| U134 | 7664-39-3 | Hydrofluoric acid (C,T) |
| U134 | 7664-39-3 | Hydrogen fluoride (C,T) |
| U135 | 7783-06-4 | Hydrogen sulfide |
| U135 | 7783-06-4 | Hydrogen sulfide H2 S |
| U096 | 80-15-9 | Hydroperoxide, 1-methyl-1- |
| | | phenylethyl- (R) |
| U116 | 96-45-7 | 2-Imidazolidinethione |
| U137 | 193-39-5 | <pre>Indeno[1,2,3-cd]pyrene</pre> |
| U190 | 85-44-9 | 1,3-Isobenzofurandione |
| U140 | 78-83-1 | Isobutyl alcohol (I,T) |
| U141 | 120-58-1 | Isosafrole |
| U142 | 143-50-0 | Kepone |
| U143 | 303-34-4 | Lasiocarpine |
| U144 | 301-04-2 | Lead acetate |
| U146 | 1335-32-6 | Lead, bis(acetato-0)tetrahydroxytri- |
| U145 | 7446-27-7 | Lead phosphate |
| U146 | 1335-32-6 | Lead subacetate |
| U129 | 58-89-9 | Lindane |
| U163 | 70-25-7 | MNNG |
| U147 | 108-31-6 | Maleic anhydride |
| U148 | 123-33-1 | Maleic hydrazide |
| U149 | 109-77-3 | Malononitrile |
| U150 | 148-82-3 | Melphalan |
| U151 | 7439-97-6 | Mercury |
| U152 U092 | 126-98-7 | Methacrylonitrile (I, T) |
| U029 | 124-40-3 74-83-9 | Methanamine, N-methyl- (I) Methane, bromo- |
| U045 | 74-83-9 | Methane, chloro- (I, T) |
| U045 | 107-30-2 | Methane, chloromethoxy- |
| U068 | 74-95-3 | Methane, dibromo- |
| U080 | 75-09-2 | Methane, dichloro- |
| U075 | 75-71-8 | Methane, dichlorodifluoro- |
| U138 | 74-88-4 | Methane, iodo- |
| U119 | 62-50-0 | Methanesulfonic acid, ethyl ester |
| U211 | 56-23-5 | Methane, tetrachloro- |
| U153 | 74-93-1 | Methanethiol (I, T) |
| U225 | 75-25-2 | Methane, tribromo- |
| U044 | 67-66-3 | Methane, trichloro- |
| U121 | 75-69-4 | Methane, trichlorofluoro- |
| | | |

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U036
                         57-74-9 4,7-Methano-1H-indene,
                                  1,2,4,5,6,7,8,8- octachloro-
                                   2,3,3a,4,7,7a-hexahydro-
U154
                         67-56-1 Methanol (I)
                         91-80-5 Methapyrilene
U155
U142
                        143-50-0 1,3,4-Metheno-2H-
                                  cyclobuta[cd]pentalen-
                                   2-one, 1,1a,3,3a,4,5,5,5a,5b,6-
                                   decachlorooctahydro-
U247
                         72-43-5 Methoxychlor
U154
                         67-56-1 Methyl alcohol (I)
U029
                         74-83-9 Methyl bromide
U186
                        504-60-9 1-Methylbutadiene (I)
U045
                         74-87-3 Methyl chloride (I,T)
                         79-22-1 Methyl chlorocarbonate (I,T)
U156
                         71-55-6 Methyl chloroform
11226
U157
                         56-49-5 3-Methylcholanthrene
                        101-14-4 4,4'-Methylenebis(2-chloroaniline)
U158
                         74-95-3 Methylene bromide
U068
U080
                         75-09-2 Methylene chloride
                         78-93-3 Methyl ethyl ketone (MEK) (I,T)
U159
                       1338-23-4 Methyl ethyl ketone peroxide (R,T)
U160
                        74-88-4 Methyl iodide
108-10-1 Methyl isobutyl ketone (I)
U138
U161
TJ162
                         80-62-6 Methyl methacrylate (I,T)
U161
                        108-10-1 4-Methyl-2-pentanone (I)
U164
                         56-04-2 Methylthiouracil
                         50-07-7 Mitomycin C
U010
                      20830-81-3 5,12-Naphthacenedione, 8-acetyl-10
U059
                                  -[(3-amino-2,3,6-trideoxy)-alpha]
                                   -L-lyxo- hexopyranosyl)oxy]
                                   -7,8,9,10- tetrahydro-6,8,11
                                   -trihydroxy-1- methoxy-, (8S-cis)-
                        134-32-7 1-Naphthalenamine
U167
                         91-59-8 2-Naphthalenamine
U168
                        494-03-1 Naphthalenamine, N,N'-bis(2-
U026
                                   chloroethyl)-
                         91-20-3 Naphthalene
U165
U047
                         91-58-7 Naphthalene, 2-chloro-
11166
                        130-15-4 1,4-Naphthalenedione
                         72-57-1 2,7-Naphthalenedisulfonic acid, 3,3'-
U236
                                   [(3,3'-
                                   dimethyl[1,1'-biphenyl]-4,4'-
                                   diyl)bis(azo)bis[5-amino-4-hydroxy]-
                                   tetrasodium salt
TJ279
                         63-25-2 1-Naphthalenol, methylcarbamate.
                        130-15-4 1,4-Naphthoquinone
U166
                        134-32-7 alpha-Naphthylamine
U167
                         91-59-8 beta-Naphthylamine
U168
                      10102-45-1 Nitric acid, thallium(1+) salt
TJ217
U169
                        98-95-3 Nitrobenzene (I,T)
U170
                        100-02-7 p-Nitrophenol
                         79-46-9 2-Nitropropane (I,T)
TJ171
                        924-16-3 N-Nitrosodi-n-butylamine
U172
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| U173 | 1116-54-7 | N-Nitrosodiethanolamine |
|----------|------------|--------------------------------------|
| U174 | 55-18-5 | N-Nitrosodiethylamine |
| U176 | 759-73-9 | N-Nitroso-N-ethylurea |
| U177 | 684-93-5 | N-Nitroso-N-methylurea |
| U178 | 615-53-2 | N-Nitroso-N-methylurethane |
| U179 | | <u>-</u> |
| | 100-75-4 | N-Nitrosopiperidine |
| U180 | 930-55-2 | N-Nitrosopyrrolidine |
| U181 | 99-55-8 | 5-Nitro-o-toluidine |
| U193 | 1120-71-4 | 1,2-Oxathiolane, 2,2-dioxide |
| U058 | 50-18-0 | 2H-1,3,2-0xazaphosphorin-2-amine, |
| | | N,N-bis(2-chloroethyl)tetrahydro-, |
| | | 2- oxide |
| U115 | 75-21-8 | Oxirane (I,T) |
| U126 | 765-34-4 | Oxiranecarboxyaldehyde |
| U041 | | Oxirane, (chloromethyl)- |
| 0041 | 106-89-8 | |
| 1.00 | 2 123-63-7 | Paraldehyde |
| U183 | 608-93-5 | Pentachlorobenzene |
| U184 | 76-01-7 | |
| U185 | 82-68-8 | Pentachloronitrobenzene (PCNB) |
| | | |
| See F027 | 87-86-5 | Pentachlorophenol |
| | | |
| U161 | 108-10-1 | Pentanol, 4-methyl- |
| U186 | 504-60-9 | - |
| U187 | 62-44-2 | Phenacetin |
| U188 | | Phenol |
| | 108-95-2 | |
| U048 | 95-57-8 | Phenol, 2-chloro- |
| U039 | 59-50-7 | |
| U081 | 120-83-2 | Phenol, 2,4-dichloro- |
| U082 | 87-65-0 | Phenol, 2,6-dichloro- |
| U089 | 56-53-1 | Phenol, 4,4'-(1,2-diethyl-1,2- |
| | | ethenediyl)bis-, (E)- |
| U101 | 105-67-9 | Phenol, 2,4-dimethyl- |
| U052 | 1319-77-3 | Phenol, methyl- |
| U132 | 70-30-4 | Phenol, 2,2'-methylenebis[3,4,6- |
| 0132 | 70 30 1 | trichloro- |
| U411 | 114-26-1 | Phenol, 2-(1-methylethoxy)-, |
| 0411 | 114-20-1 | |
| 1.00 | 100 00 5 | methylcarbamate. |
| U170 | 100-02-7 | Phenol, 4-nitro- |
| | | |
| See F027 | 87-86-5 | Phenol, pentachloro- |
| See F027 | 58-90-2 | Phenol, 2,3,4,6-tetrachloro- |
| See F027 | 95-95-4 | Phenol, 2,4,5-trichloro- |
| See F027 | 88-06-2 | Phenol, 2,4,6-trichloro- |
| | | , , , |
| U150 | 148-82-3 | L-Phenylalanine, 4-[bis(2- |
| 0200 | 110 01 0 | chloroethyl)amino]- |
| U145 | 7446-27-7 | Phosphoric acid, lead(2+) salt (2:3) |
| | | |
| U087 | 3288-58-2 | Phosphorodithioic acid, 0,0-diethyl |
| 1 0 0 | | S- methyl ester |
| U189 | 1314-80-3 | Phosphorus sulfide (R) |
| U190 | 85-44-9 | Phthalic anhydride |
| U191 | 109-06-8 | 2-Picoline |
| U179 | 100-75-4 | Piperidine, 1-nitroso- |
| U192 | 23950-58-5 | Pronamide |
| U194 | 107-10-8 | 1-Propanamine (I,T) |
| U111 | 621-64-7 | 1-Propanamine, N-nitroso-N-propyl- |
| O + + + | 021 04-7 | I II OPANAMINO, N MILCIOSO N PLOPYI |

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U110
                        142-84-7 1-Propanamine, N-propyl- (I)
                         96-12-8 Propane, 1,2-dibromo-3-chloro-
U066
                         78-87-5 Propane, 1,2-dichloro-
U083
                        109-77-3 Propanedinitrile
U149
U171
                         79-46-9 Propane, 2-nitro- (I,T)
U027
                        108-60-1 Propane, 2,2'-oxybis[2-chloro-
U193
                       1120-71-4 1,3-Propane sultone
See F027
                         93-72-1 Propanoic acid, 2-(2,4,5-
                                   trichlorophenoxy)-
U235
                        126-72-7 1-Propanol, 2,3-dibromo-, phosphate
                                   (3:1)
U140
                         78-83-1 1-Propanol, 2-methyl- (I,T)
U002
                         67-64-1 2-Propanone (I)
                         79-06-1 2-Propenamide
U007
                        542-75-6 1-Propene, 1,3-dichloro-
U084
U243
                       1888-71-7 1-Propene, 1,1,2,3,3,3-hexachloro-
U009
                        107-13-1 2-Propenenitrile
                        126-98-7 2-Propenenitrile, 2-methyl- (I,T)
U152
                         79-10-7 2-Propenoic acid (I)
W008
                        140-88-5 2-Propenoic acid, ethyl ester (I)
U113
                         97-63-2 2-Propenoic acid, 2-methyl-, ethyl
U118
                                   ester
TJ162
                         80-62-6 2-Propenoic acid, 2-methyl-, methyl
                                  ester (I,T)
U373
                        122-42-9 Propham.
U411
                        114-26-1 Propoxur.
                      52888-80-9 Prosulfocarb.
U387
                        107-10-8 n-Propylamine (I,T)
78-87-5 Propylene dichloride
U194
U083
U148
                        123-33-1 3,6-Pyridazinedione, 1,2-dihydro-
U196
                        110-86-1 Pyridine
U191
                        109-06-8 Pyridine, 2-methyl-
U237
                         66-75-1 2,4-(1H,3H)-Pyrimidinedione, 5-
                                  [bis(2- chloroethyl)amino]-
                         56-04-2 4(1H)-Pyrimidinone, 2,3-dihydro-6-
U164
                                  methyl-2-thioxo-
                        930-55-2 Pyrrolidine, 1-nitroso-
U180
U200
                         50-55-5 Reserpine
U201
                        108-46-3 Resorcinol
11202
                     1\ 81-07-2 Saccharin, & salts
                         94-59-7 Safrole
U203
                       7783-00-8 Selenious acid
U204
U204
                       7783-00-8 Selenium dioxide
U205
                       7488-56-4 Selenium sulfide
U205
                       7488-56-4 Selenium sulfide SeS2 (R,T)
U015
                       115-02-6 L-Serine, diazoacetate (ester)
                         93-72-1 Silvex (2,4,5-TP)
See F027
U206
                      18883-66-4 Streptozotocin
U103
                         77-78-1 Sulfuric acid, dimethyl ester
11189
                       1314-80-3 Sulfur phosphide (R)
                         93-76-5 2,4,5-T
See F027
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| U207 | 05-01-3 | 1,2,4,5-Tetrachlorobenzene |
|----------|--------------|---|
| U208 | 630-20-6 | |
| | | |
| U209 | 79-34-5 | |
| U210 | 127-18-4 | Tetrachloroethylene |
| See F027 | 58-90-2 | 2,3,4,6-Tetrachlorophenol |
| U213 | 109-99-9 | Tetrahydrofuran (I) |
| U214 | 563-68-8 | Thallium(I) acetate |
| U215 | 6533-73-9 | Thallium(I) carbonate |
| U216 | 7791-12-0 | Thallium(I) chloride |
| U216 | 7791-12-0 | Thallium chloride Tlcl |
| U217 | 10102-45-1 | Thallium(I) nitrate |
| U218 | 62-55-5 | Thioacetamide |
| U410 | 59669-26-0 | Thiodicarb. |
| U153 | 74-93-1 | Thiomethanol (I,T) |
| U244 | 137-26-8 | Thioperoxydicarbonic diamide [(H2 N)C(S)]2 S2, tetramethyl- |
| U409 | 23564-05-8 | Thiophanate-methyl. |
| U219 | 62-56-6 | Thiourea |
| U244 | 137-26-8 | |
| U220 | 108-88-3 | |
| U221 | 25376-45-8 | |
| U223 | 26471-62-5 | |
| U328 | | |
| U353 | 95-53-4 | |
| | 106-49-0 | - |
| U222 | 636-21-5 | - |
| U389 | 2303-17-5 | |
| U011 | 61-82-5 | |
| U227 | 79-00-5 | |
| U228 | 79-01-6 | |
| U121 | 75-69-4 | Trichloromonofluoromethane |
| See F027 | 95-95-4 | 2,4,5-Trichlorophenol |
| See F027 | 88-06-2 | 2,4,6-Trichlorophenol |
| U404 | 121-44-8 | Triethylamine. |
| U234 | 99-35-4 | - |
| U182 | 123-63-7 | 1,3,5-Trioxane, 2,4,6-trimethyl- |
| U235 | 126-72-7 | Tris(2,3-dibromopropyl) phosphate |
| U236 | 72-57-1 | Trypan blue |
| U237 | 66-75-1 | Uracil mustard |
| U176 | 759-73-9 | Urea, N-ethyl-N-nitroso- |
| U177 | 684-93-5 | Urea, N-methyl-N-nitroso- |
| U043 | 75-01-4 | Vinyl chloride |
| U248 | \1\ 81-81-2 | Warfarin, & salts, when present at |
| 0240 | (1 (01 01 2 | concentrations of 0.3% or less |
| U239 | 1330-20-7 | Xylene (I) |
| U200 | 50-55-5 | Yohimban-16-carboxylic acid, 11,17- |
| | | dimethoxy-18-[(3,4,5- |
| | | trimethoxybenzoyl)oxy]-, methyl |
| | | ester, (3beta,16beta,17alpha, |
| | | 18beta,20alpha)- |
| | | |
| U249 | 1314-84-7 | Zinc phosphide Zn3 P2, when present |
| | | at concentrations of 10% or less |
| | | |

\1\ CAS Number given for parent compound only.

Sec. 261.35 Deletion of certain hazardous waste codes following equipment cleaning and replacement.

- (a) Wastes from wood preserving processes at plants that do not resume or initiate use of chlorophenolic preservatives will not meet the listing definition of F032 once the generator has met all of the requirements of paragraphs (b) and (c) of this section. These wastes may, however, continue to meet another hazardous waste listing description or may exhibit one or more of the hazardous waste characteristics.
- (b) Generators must either clean or replace all process equipment that may have come into contact with chlorophenolic formulations or constituents thereof, including, but not limited to, treatment cylinders, sumps, tanks, piping systems, drip pads, fork lifts, and trams, in a manner that minimizes or eliminates the escape of hazardous waste or constituents, leachate, contaminated drippage, or hazardous waste decomposition products to the ground water, surface water, or atmosphere.
 - (1) Generators shall do one of the following:
- (i) Prepare and follow an equipment cleaning plan and clean equipment in accordance with this section;
- (ii) Prepare and follow an equipment replacement plan and replace equipment in accordance with this section; or
- (iii) Document cleaning and replacement in accordance with this section, carried out after termination of use of chlorophenolic preservations.
 - (2) Cleaning Requirements.
- (i) Prepare and sign a written equipment cleaning plan that describes:
 - (A) The equipment to be cleaned;
 - (B) How the equipment will be cleaned;
 - (C) The solvent to be used in cleaning;
 - (D) How solvent rinses will be tested; and
 - (E) How cleaning residues will be disposed.
 - (ii) Equipment must be cleaned as follows:
 - (A) Remove all visible residues from process equipment;
- (B) Rinse process equipment with an appropriate solvent until dioxins and dibenzofurans are not detected in the final solvent rinse.
 - (iii) Analytical requirements.
 - (A) Rinses must be tested in accordance with SW-846, Method 8290.
- (B) ``Not detected'' means at or below the lower method calibration limit (MCL) in Method 8290, Table 1.
- (iv) The generator must manage all residues from the cleaning process as F032 waste.
 - (3) Replacement requirements.
- (i) Prepare and sign a written equipment replacement plan that describes:
 - (A) The equipment to be replaced;
 - (B) How the equipment will be replaced; and
 - (C) How the equipment will be disposed.
 - (ii) The generator must manage the discarded equipment as F032

waste.

- (4) Documentation requirements.
- (i) Document that previous equipment cleaning and/or replacement was performed in accordance with this section and occurred after cessation of use of chlorophenolic preservatives.
- (c) The generator must maintain the following records documenting the cleaning and replacement as part of the facility's operating record:
 - (1) The name and address of the facility;
- (2) Formulations previously used and the date on which their use ceased in each process at the plant;
 - (3) Formulations currently used in each process at the plant;
 - (4) The equipment cleaning or replacement plan;
- (5) The name and address of any persons who conducted the cleaning and replacement;
 - (6) The dates on which cleaning and replacement were accomplished;
 - (7) The dates of sampling and testing;
- (8) A description of the sample handling and preparation techniques, including techniques used for extraction, containerization, preservation, and chain-of-custody of the samples;
- (9) A description of the tests performed, the date the tests were performed, and the results of the tests;
- (10) The name and model numbers of the instrument(s) used in performing the tests;
 - (11) QA/QC documentation; and
- (12) The following statement signed by the generator or his authorized representative:

I certify under penalty of law that all process equipment required to be cleaned or replaced under 40 CFR 261.35 was cleaned or replaced as represented in the equipment cleaning and replacement plan and accompanying documentation. I am aware that there are significant penalties for providing false information, including the possibility of fine or imprisonment.